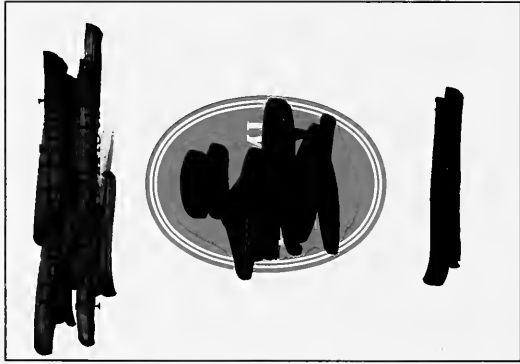


BASIC DATA  
RELATING TO THE  
NATIONAL INSTITUTES OF HEALTH  
1969-1970

GRANTS

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BASIC  
DATA

ATING TO THE

NATIONAL  
INSTITUTES  
OF HEALTH  
1969

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**Prepared by the staffs of the  
Associate Director for Program Planning & Evaluation  
and the  
Division of Research Grants**

**NATIONAL INSTITUTES OF HEALTH**

**April 1969**

# DHEW

## PUBLIC HEALTH SERVICE

CONSUMER  
PROTECTION &  
ENVIRONMENTAL  
HEALTH SERVICE

NIH

HEALTH SERVICES  
& MENTAL HEALTH  
ADMINISTRATION

## BUREAU OF HEALTH PROFESSIONS EDUCATION & MANPOWER TRAINING

*Instructional  
Development*

EDUCATION &  
RESEARCH FACILITIES

HEALTH MANPOWER  
& EDUCATIONAL SERVICES

RESEARCH  
RESOURCES

*Manpower  
Development*

ALLIED HEALTH  
MANPOWER

DENTAL  
HEALTH

NURSING

PHYSICIAN  
MANPOWER

## NATIONAL INSTITUTES

ALLERGY  
& INFECTIOUS  
DISEASES

ARTHRITIS  
& METABOLIC  
DISEASES

CANCER

CHILD HEALTH  
& HUMAN  
DEVELOPMENT

DENTAL  
RESEARCH

ENVIRONMENTAL  
HEALTH  
SCIENCES

EYE

GENERAL  
MEDICAL  
SCIENCES

HEART

NEUROLOGICAL  
DISEASES  
& STROKE

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GRANTS

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RESEARCH &  
TECHNOLOGY

RESEARCH  
SERVICES





## FOREWORD

*Basic Data Relating to the National Institutes of Health*, first compiled in 1954, has been issued annually since 1961. Single copies of the current number are available from NIH information offices.

The reorganization of DHEW health programs in April 1968 added two major organizations to NIH—the Bureau of Health Professions Education & Manpower Training and the National Library of Medicine. These are included in all NIH data for FY 1969, but not FY 1968 unless specified. All NIH data for FY 1967 and thereafter exclude the National Institute of Mental Health, which became a separate bureau in January 1967. See "History" for other major organizational changes.

Supplemental awards, unless otherwise noted, are combined with their parent awards (or with other supplements) when both are made from the same fiscal-year funds.

Scientific evaluation grants are excluded from all tables showing award data.

Dollars and percents may not add to totals because of rounding.

## Glossary of Abbreviations

ADA.....	Associate Director for Administration
BHPENT.....	Bureau of Health Professions & Manpower Training
CC.....	Clinical Center
DAHM .....	Division of Allied Health Manpower
DBS .....	Division of Biologics Standards
DDH.....	Division of Dental Health
DEHS .....	Division of Environmental Health Sciences
DERF.....	Division of Education & Research Facilities
DGMS .....	Division of General Medical Sciences
DHMES.....	Division of Health Manpower & Educational Services
DH .....	Division of Nursing

DPM .....	Division of Physician Manpower
DRFR.....	Division of Research Facilities & Resources
DRG .....	Division of Research Grants
DRMP.....	Division of Regional Medical Programs
DRR.....	Division of Research Resources
DRS.....	Division of Research Services
ED .....	Engineering Development
FIC .....	John E. Fogarty International Center for Advanced Study in the Health Sciences
GR&S .....	General Research & Services
GRS .....	General Research Support
ICMRT .....	International Center for Medical Research & Training
I/D .....	Research Institutes & Divisions
NCI.....	National Cancer Institute
NHI.....	National Heart Institute

NIAID.....	National Institute of Allergy & Infectious Diseases
NIAMD.....	National Institute of Arthritis & Metabolic Diseases
NICHD.....	National Institute of Child Health & Human Development
NIDR .....	National Institute of Dental Research
NIEHS .....	National Institute of Environmental Health Sciences
NIGMS .....	National Institute of General Medical Sciences
NIMH.....	National Institute of Mental Health
NINDB.....	National Institute of Neurological Diseases & Blindness
NINDS .....	National Institute of Neurological Diseases & Stroke
NLM.....	National Library of Medicine
OIR .....	Office of International Research
R&D.....	Research & Development

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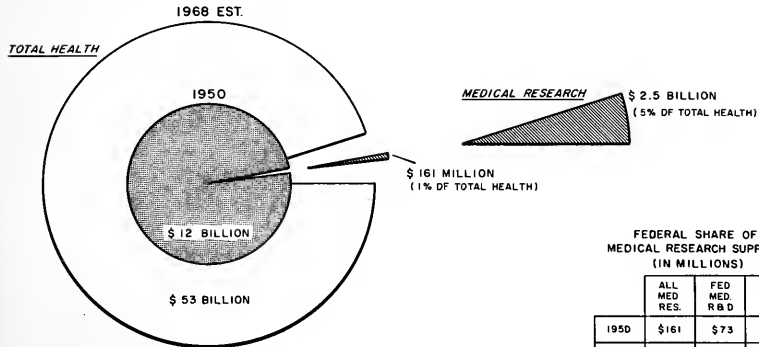
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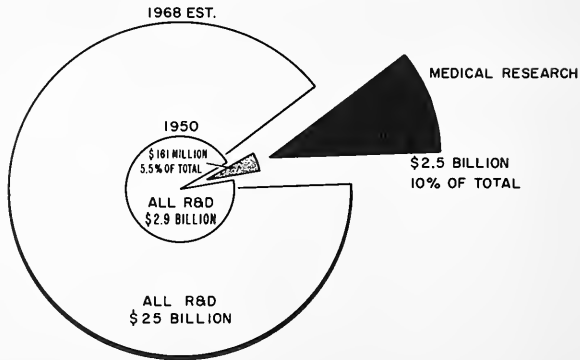




# MEDICAL RESEARCH AS A PROPORTION OF THE NATION'S HEALTH COST 1950-1968

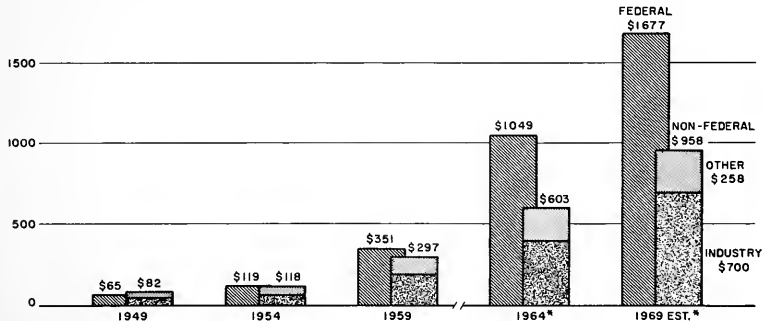


MEDICAL RESEARCH AS A  
PROPORTION OF ALL RESEARCH AND DEVELOPMENT  
1950-1968



# SOURCES OF MEDICAL RESEARCH FUNDS 1949-1969

MILLIONS  
\$ 2000



\*NON-FEDERAL DATA ARE NOT STRICTLY COMPARABLE WITH THOSE FOR PRIOR YEARS, AS COVERAGE HAS BEEN IMPROVED.

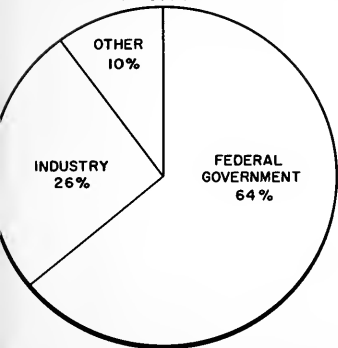
NATIONAL SUPPORT FOR MEDICAL RESEARCH, 1944 - 1969\*  
(Obligations in millions)

Source of funds	1949	1954	1959	1964	1965	1966	1967	1968 est.	1969 est.
<b>Total</b>	<b>\$147</b>	<b>\$ 237</b>	<b>\$ 648</b>	<b>\$1,652</b>	<b>\$1,841</b>	<b>\$2,056</b>	<b>\$2,264</b>	<b>\$2,473</b>	<b>\$ 2,635</b>
Government	65	123	368	1,099	1,229	1,377	1,524	1,658	1,750
Federal	65	119	351	1,049	1,174	1,316	1,459	1,589	1,677
State and local	n.o.	4	17	50	55	61	65	69	73
Industry	48	61	190	400	450	510	565	635	700
Private support	34	53	90	153	162	169	175	180	185
Foundations and health agencies	20	30	49	88	92	94	98	101	103
Other private contributors	n.a.	n.o.	10	22	25	28	29	30	31
Endowment	14	16	19	19	19	19	19	19	19
Institutions' own funds	n.o.	7	12	24	26	28	29	30	32

\* Covers only medical and health-related research; training and construction are not included. Non-Federal data since 1964 are not strictly comparable with those for prior years, as coverage has been improved.

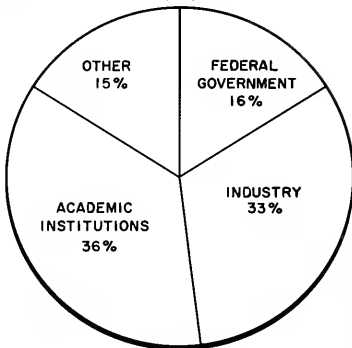
FUNDS OBLIGATED FOR MEDICAL AND HEALTH-RELATED RESEARCH  
UNITED STATES-1969 EST.

*BY SOURCE*



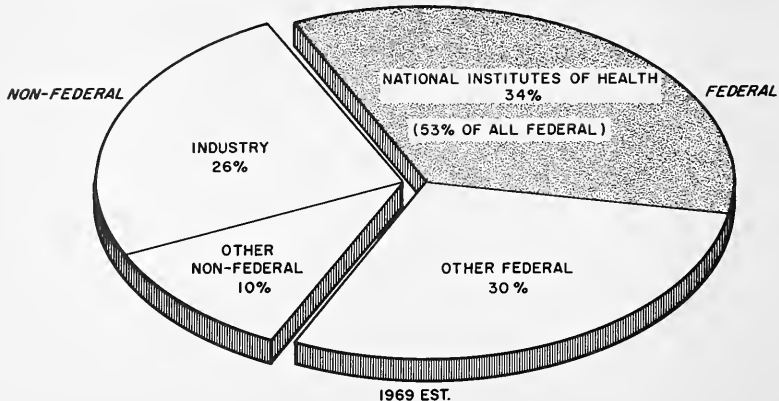
\$2.6 BILLION

*BY PERFORMER*



\$2.6 BILLION

## NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL RESEARCH SUPPORT



FEDERAL SUPPORT FOR MEDICAL RESEARCH, FY 1949-1969\*  
(Dollars in millions)

Department	1949		1954		1959		1964		1966		1967		1968		1969 Est.	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total	\$65	100.0	\$119	100.0	\$351	100.0	\$1,049	100.0	\$1,316	100.0	\$1,459	100.0	\$1,589	100.0	\$1,677	100.0
AEC	17	26.2	26	21.8	44	12.4	78	7.4	90	6.8	96	6.6	95	6.0	99	5.9
Agriculture	4	6.2	6	5.0	15	4.3	28	2.7	45	3.4	45	3.1	46	2.9	46	2.7
Defense	9	13.8	21	17.6	32	9.1	86	8.2	119	9.0	118	8.1	114	7.2	120	7.2
DHEW	31	47.6	59	49.6	238	67.8	753	71.8	925	70.3	1,051	72.0	1,133	71.3	1,196	71.3
NIH	(25)	(38.5)	(49)	(41.2)	(212)	(60.4)	(651)	(62.1)	(791)	(60.1)	(812) <sup>§</sup>	(55.7)	(864) <sup>§</sup>	(54.4)	(888) <sup>§</sup>	(53.0)
NASA	-	-	-	-	-	-	41	3.9	75	5.7	82	5.6	109	6.9	114	6.8
N5F	-	-	1	0.8	8	2.3	23	2.2	14	1.1	14	1.0	21	1.3	22	1.3
Transportation <sup>†</sup>	-	-	‡	-	‡	-	3	0.3	2	0.2	2	0.1	17	1.1	20	1.2
VA	4	6.2	5	4.2	13	3.7	33	3.1	41	3.1	45	3.1	46	2.9	50	3.0
Other	-	-	1	0.8	1	0.3	4	0.4	5	0.4	6	0.4	8	0.5	10	0.6

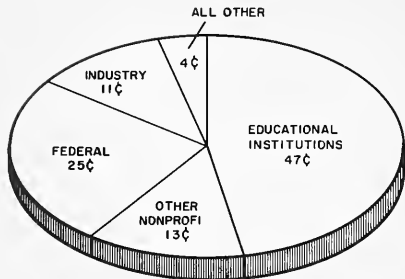
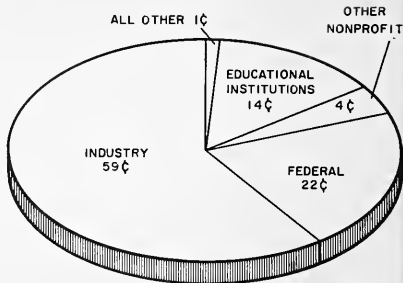
\*Covers biomedical research (projects, resources and general support) but not training or construction.

<sup>†</sup>Includes FAA for all years and National Highway Safety Bureau for 1968 and 1969.

<sup>‡</sup>Less than \$500,000.

<sup>§</sup> Contains BHPMT and NLM.

## FEDERAL R &amp; D DOLLAR DISTRIBUTED BY PERFORMER, 1969 EST.

MEDICAL AND HEALTH-RELATED  
(\$1.7 BILLION)ALL FEDERAL RESEARCH & DEVELOPMENT\*  
(\$17.3 BILLION)

\*THE RESEARCH CENTERS ADMINISTERED BY INDUSTRIAL FIRMS, UNIVERSITIES, AND OTHER NONPROFIT INSTITUTIONS ARE ATTACHED TO THE APPROPRIATE SECTOR.



**NIH AND FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY PERFORMER, FY 1968-1969**  
(Dollars in millions)

Performer	FY 1968 actual obligations				FY 1969 estimated obligations*							
	NIH†				NIH†				Federal			
	Total R & D	Research Total	Basic	Development	Total R & D	Research Total	Basic	Development	Total R & D	Research Total	Basic	Development
Total	\$864.0	\$860.5	\$331.3	\$3.4	\$939.4	\$935.7	\$355.5	\$3.8	\$17,300.5	\$5,989.6	\$2,353.7	\$11,310.9
United States and Territories	850.7	847.2	328.1	3.4	917.2	913.4	352.0	3.8	17,217.3	5,917.4	2,320.1	11,299.9
Federal Government	140.1	139.7	53.9	0.4	155.8	155.1	59.5	0.7	3,838.3	1,876.6	572.5	1,961.7
Profit organizations, excl. research centers	39.1	37.6	-	1.5	56.8	54.4	-	2.4	9,728.5	1,532.5	434.7	8,195.9
Research centers	-	-	-	-	-	-	-	-	424.8	71.2	32.2	353.6
Educational institutions, excl. research centers	518.9	517.9	212.0	1.0	549.8	549.7	228.0	0.1	1,696.5	1,555.5	874.3	140.9
Research centers	0.1	-	-	0.1	0.1	-	-	0.1	744.5	466.9	279.0	277.6
Nonprofit institutions, excl. educational institu- tions and research centers	131.2	131.0	53.4	0.3	148.4	148.0	61.6	0.4	447.1	302.1	108.3	145.0
Research centers	0.6	0.4	0.4	0.2	0.1	-	-	0.1	253.0	41.2	10.1	211.8
Other performers	20.6	20.6	8.4	-	6.2	6.2	2.8	-	84.6	71.3	9.0	13.3
Foreign	13.2	13.2	3.2	‡	22.2	22.2	3.5	-	83.2	72.1	33.6	11.0

\* Based on requested amounts in The Budget, 1969.

† Includes BHPENT and NLM.

‡ Less than \$50,000.

NIH AND FEDERAL OBLIGATIONS FOR RESEARCH BY FIELD OF SCIENCE, FY 1968 - 1969  
(Dollars in millions)

Field of science	FY 1968 actual obligations				FY 1969 estimated obligations*						
	NIH†				NIH†				Federal		
	Total	Percent of Total	Basic	Applied	Total	Percent of Federal	Basic	Applied	Total	Basic	Applied
Total	\$860.5	100.0	\$331.3	\$529.2	\$935.7	15.6	\$355.5	\$580.2	\$5,989.6	\$2,353.7	\$3,635.9
Life sciences	779.7	90.6	285.1	494.5	846.3	47.9	305.9	540.4	1,765.3	717.0	1,048.3
Biological sciences	128.7	15.0	128.7	—	138.1	27.2	138.1	—	507.4	388.8	118.6
Medical sciences	651.0	75.6	156.4	494.5	708.2	62.6	167.8	540.4	1,132.1	282.4	849.8
Other	0.1	§	0.1	—	—	—	—	—	125.8	45.8	80.0
Psychological sciences	13.6	1.6	11.8	1.8	14.6	11.2	12.7	1.9	130.6	74.7	56.0
Biological psychology	8.0	0.9	6.9	1.1	8.6	14.9	7.5	1.1	57.9	43.2	14.7
Social psychology	5.6	0.7	4.9	0.7	6.0	8.2	5.2	0.8	72.8	31.5	41.2
Physical sciences	42.7	5.0	23.0	19.7	45.9	3.6	24.7	21.2	1,289.8	828.1	461.6
Chemistry	34.6	4.0	17.8	16.7	37.1	14.4	19.1	18.0	257.7	128.6	129.1
Other	8.1	1.0	5.1	3.0	8.8	0.9	5.6	3.2	1,032.1	699.5	332.5
Environmental sciences	0.1	§	0.1	—	0.1	—	0.1	—	611.7	382.2	229.4
Mathematical sciences	4.8	0.6	1.7	3.1	5.2	3.6	1.9	3.3	144.7	76.3	68.4
Engineering sciences	13.5	1.6	7.1	6.5	14.6	0.9	7.6	7.0	1,695.4	191.4	1,503.9
Social sciences	3.2	0.4	2.5	0.7	3.6	1.4	2.6	0.9	250.5	69.3	181.2
Anthropology	‡	§	‡	—	‡	—	‡	—	13.2	11.1	2.1
Economics	—	—	—	—	—	—	—	—	83.9	22.5	61.4
Sociology	1.4	0.2	1.1	0.3	2.1	3.0	1.4	0.7	70.8	14.6	56.3
Other social sciences	1.7	0.2	1.3	0.4	1.4	1.7	1.2	0.3	82.6	21.2	61.5
Other sciences	2.9	0.3	—	2.9	5.4	5.3	—	5.4	101.6	14.7	87.0

\* Based on requested amounts in The Budget, 1969.

† Includes BHPEMT and NLM.

‡ Less than \$50,000.

§ Less than 0.05 percent.

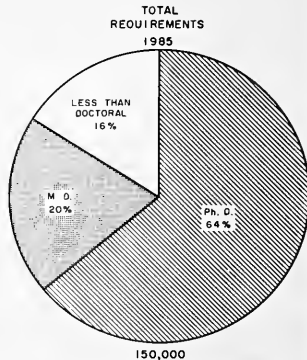
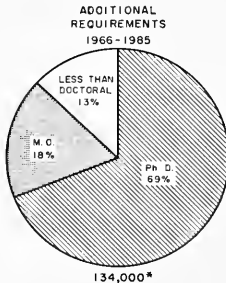
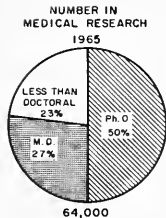
# THE NATION'S HEALTH MANPOWER

## Supply and Estimated Need in Selected Categories

Profession	1968			1975		
	Supply	Need	Shortage	Supply	Need	Shortage
Physician*	311,000	363,000	52,000	358,000	400,000	42,000
Dentist	100,000	109,000	9,000	109,000	137,000	28,000
Nurse (R.N.)	659,000	800,000	141,000	795,000	1,000,000	205,000
Allied health	654,000	853,000	199,000	909,000	?	?

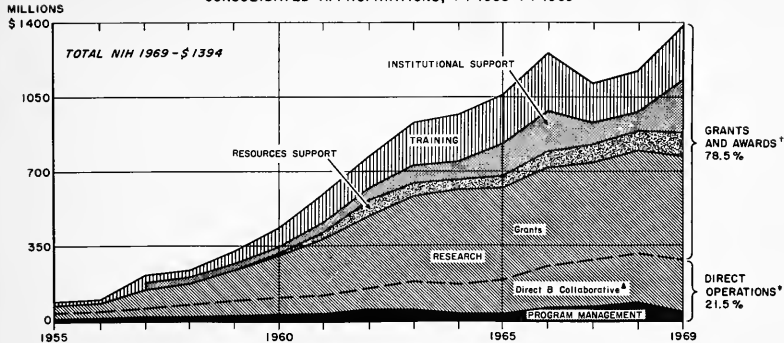
\*Doctors of medicine and osteopathy.

# MANPOWER FOR BIOMEDICAL RESEARCH WITH DISTRIBUTION BY DEGREE 1965 - 1985



\*INCLUDES 48,000 TO REPLACE INVESTIGATORS WHO DIE, RETIRE OR SHIFT TO SOME OTHER OCCUPATION, AND 86,000 NEEDED FOR EXPANSION OF RESEARCH MANPOWER LABOR FORCE.

# NIH GROWTH AND FUNCTIONS CONSOLIDATED APPROPRIATIONS, FY 1955-FY 1969\*



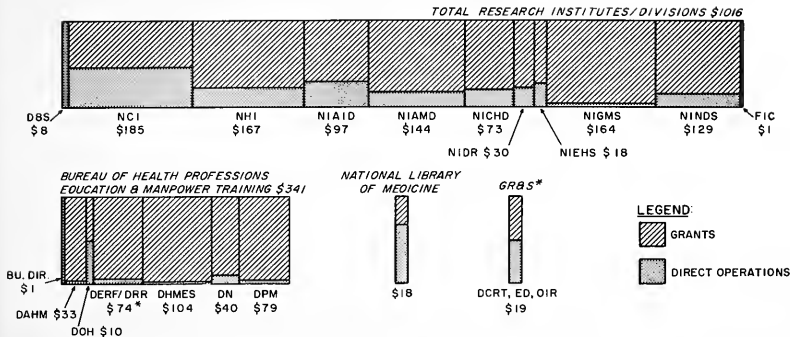
\* CONTAINS ALL PRESENT AND FORMER NIH ACTIVITIES, INCLUDING MENTAL HEALTH THROUGH FY 1966 AND REGIONAL MEDICAL PROGRAMS FY 1966-1968. EXCLUDES DIRECT CONSTRUCTION. <sup>†</sup> BUT CONTAINS DIRECT TRAINING (\$1 MILLION IN FY 1969). <sup>‡</sup> BUT CONTAINS SCIENTIFIC EVALUATION GRANTS (\$3.2 MILLION FY 1969). <sup>▲</sup> CONTAINS ALL OF BIOLOGICS STANDARDS (\$8.5 MILLION IN FY 1969).

CONSOLIDATED NIH APPROPRIATIONS, FY 1955-1969\*  
(In thousands)

Activity	1955	1957	1959	1961	1963	1965	1966	1967	1968	1969
Total	\$81,268	\$213,007	\$324,383	\$590,000	\$930,800	\$1,058,992	\$1,244,406	\$1,111,888	\$1,178,924	\$1,394,052
Research	57,659	131,102	210,071	346,375	532,593	588,424	650,280	671,396	713,567	729,946
Grants†	33,918	89,682	141,454	263,397	401,353	430,682	465,356	468,079	492,746	488,321
Laboratories and clinics‡	22,187	33,160	45,839	58,470	67,434	77,154	82,728	77,403	81,165	88,485
Collaborative research & development	—	4,668	18,142	21,538	59,806	74,472	91,460	109,726	113,037	126,776
Other§	1,554	3,592	4,636	2,970	4,000	6,116	10,736	16,188	26,619	26,364
Training	13,663	33,723	60,614	133,839	201,748	231,210	267,603	185,407	194,196	263,337
Grants, tr'ships, fel'ships & career aw.	13,613	33,472	60,310	132,000	195,777	229,571	265,496	184,522	193,067	219,782
Student loans (excluding revolving fund)	—	—	—	—	—	—	—	—	—	24,810
Scholarships & opportunity grants	—	—	—	—	—	—	—	—	—	17,719
Direct training	50	251	304	1,839	5,971	1,639	2,107	885	1,129	1,026
Institutional support & development	—	30,000	30,000	44,658	80,000	150,000	188,700	101,266	91,033	242,791
Construction	—	30,000	30,000	30,000	50,000	93,000	106,000	56,000	35,000	93,200
Other general support programs	—	—	—	14,658	30,000	57,000	82,700	45,266	56,033	149,591
Resources support & development	110	288	320	28,543	60,183	55,784	73,440	82,253	91,733	112,329
Clinical research centers	—	—	—	12,000	47,933	40,234	50,040	51,403	41,593	46,154
Other special research resources♦	110	288	320	16,543	12,250	15,550	23,400**	30,850**	50,140**	66,175
Program management	9,836	17,894	23,378	36,585	56,276	33,574	64,383	71,566	88,395	45,649

\*Appropriations for NIMH included through FY 1966. Direct construction and foreign currency program funds excluded throughout. †Includes regular programs, heart coop. drug study, pharma.-tax. study, and ICMRT. ‡Formerly designated "direct research." §Includes biometry, epid. and field studies; biologics standards; computer res. and tech.; and international res. (direct). ||General res. support, educational improvement, formula and project grants to schools of public health, grants to allied health professions tr. centers to develop new methods, and dental health auxiliary utilization grants. ♦Dental res. and env. health sci. institutes, animal resources, Gargas Memorial Lab., and library resources support and operations. \*\*Includes appropriations for Regional Med. Programs.

# NIH APPROPRIATIONS, FY 1969 (MILLIONS OF DOLLARS)



NOTE: FINANCED BY REIMBURSEMENT FROM THE ABOVE APPROPRIATIONS. CC \$16.3 MILLION, DRG \$7.4 MILLION, ORS \$12.5, & AOA \$4.5 MILLION.

\* DERF/DRR CONTAIN \$66 MILLION TRANSFERRED FROM GR & S FOR FORMER ORR ACTIVITIES. THESE BHP&MT DIVISIONS ALSO ADMINISTER \$52.9 MILLION IN GENERAL RESEARCH SUPPORT GRANTS, FROM ABOVE INSTITUTE APPROPRIATIONS.

FUNDS AVAILABLE FOR OBLIGATION, FY 1969: TOTAL NIH\*  
(In thousands)

Activities	Total NIH	Research Institutes and Divisions	Bureau of Health Professions Education and Manpower Training	National Library of Medicine
Total	\$1,517,393	\$1,013,487	\$483,730	\$20,176
Research	704,829	693,409	10,099	1,321
Grants	470,058	463,983	4,754	1,321
Laboratories and clinics	85,554	85,554	-	-
Collaborative research and development	123,326	119,818	3,508	-
Other	25,891	24,054	1,837	-
Training	326,797	198,199	127,509	1,089
Grants, traineeships, fellowships, career awards	235,036	197,197	36,750	1,089
Student loans (excluding revolving fund)	51,882	-	51,882	-
Scholarships and opportunity grants	38,877	-	38,877	-
Direct training	1,002	1,002	-	-
Institutional support and development	323,466	52,945	270,521	-
Construction	173,875	-	173,875	-
Other general support programs	149,591	52,945	96,646	-
Resources support and development	112,975	36,875	60,566	15,534
Clinical research centers	46,154	11,150	35,004	-
Other special research resources	66,821	25,725	25,562	15,534
Program management	49,326	32,059	15,035	2,232

\*Supplementary data for I/D, BHPENT and NLM are shown in following tables.



FUNDS AVAILABLE FOR OBLIGATION, FY 1969: RESEARCH INSTITUTES AND DIVISIONS  
(In thousands)

Activity	Total	NIAMD	NIAMD	NCI	NICHD	NIDR	NEI	NIEHS	NIGMS	NHI	NINDS	FIC	ED
Total	\$1,013,487	\$103,173	\$140,232	\$181,419	\$70,800	\$29,419	\$22,240	\$17,682	\$159,955	\$161,010	\$103,265	\$3,374	\$1,009
Research	693,409	79,857	103,857	140,487	47,059	16,382	15,224	9,287	76,448	116,867	72,557	1,718	750
Projects (grants)*	463,983	52,646	80,762	58,613	34,997	10,419	13,835	4,855	73,153	84,653	49,920	130	-
Laboratories & clinics	85,554	14,581	15,891	16,114	6,065	4,687	737	4,432	-	13,168	9,879	-	-
Collaborative research & development	119,818	12,630	6,498	64,380	3,975	845	349	-	3,295	17,354	9,742	-	750
Biometry, epidemiology & field stud.	9,550	-	706	1,380	2,022	431	303	-	-	1,692	3,016	-	-
Biologics standards ††	8,305	-	-	-	-	-	-	-	-	-	-	-	-
Computer research & technology ††	4,611	-	-	-	-	-	-	-	-	-	-	-	-
International research (direct)	1,588	-	-	-	-	-	-	-	-	-	-	1,588	-
Training	198,199	14,015	22,846	16,015	14,294	7,374	4,279	4,092	68,723	25,979	18,946	1,636	-
Grants	141,064	9,488	16,109	11,641	10,012	5,609	3,603	3,892	46,901	18,150	15,659	-	-
Fellowships	56,133	4,362	6,737	4,374	4,193	1,765	676	200	21,373	7,604	3,213	1,636	-
Direct training	1,002	165	-	-	89	-	-	-	449	225	74	-	-
Institutional support & development §	52,945	5,889	9,409	6,838	4,082	1,194	1,612	551	8,127	9,425	5,818	-	-
Resources support & development	36,875	1,600	1,500	14,450	2,500	3,400	734	3,000	1,000	5,425	3,266	-	-
Categorical clinic research ctrs.	11,150	1,100	1,500	-	500	400	734	-	-	4,500	2,416	-	-
Dental & envir. health science inst.	6,000	-	-	-	-	3,000	-	3,000	-	-	-	-	-
Other research centers ††	19,225	-	-	14,450	2,000	-	-	-	1,000	925	850	-	-
Gorgas Memorial Laboratory	500	500	-	-	-	-	-	-	-	-	-	-	-
Program management	32,059	1,812	2,620	3,629	2,865	1,069	391	752	5,657	3,314	2,678	20	259
Program direction	5,557	324	321	1,019	809	338	-	312	1,095	590	490	-	259
Scientific evaluation	2,138	50	20	151	100	42	25	-	1,437	163	130	20	-
Review and approval	17,371	1,438	2,279	2,459	1,956	689	366	440	3,125	2,561	2,058	-	-
Management & central services †	6,993	-	-	-	-	-	-	-	-	-	-	-	-

\* Includes regular programs (except scientific eval.), heart cooperative drug study, pharmacology-toxicology studies, and ICMRT. † Funds included in total but not shown in separate cols. †† Total appropriation. § GRS grants admin. by BHPENT. †† Specialized research, anesthesiology-diagnostic radiology, leukemia research supp. & mental retard. centers.

FUNDS AVAILABLE FOR OBLIGATION, FY 1969: BUREAU OF HEALTH PROFESSIONS EDUCATION AND MANPOWER TRAINING  
(In thousands)

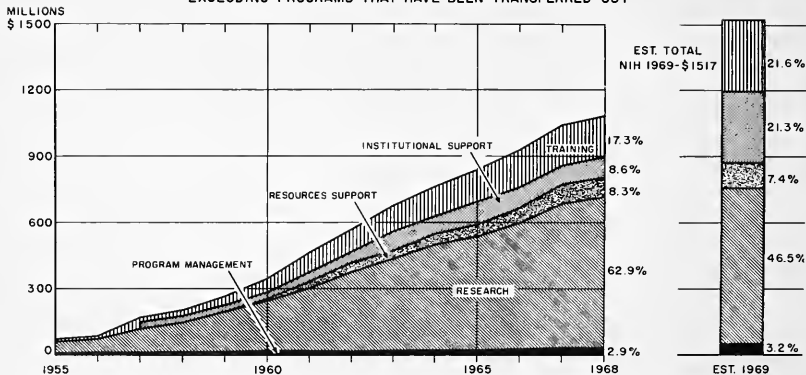
Activities	Total	Health Manpower Educational Services	Physician Manpower	Dental Health	Nursing	Allied Health Manpower	Research Facilities and Resources	Bureau Director
Total	\$483,730	\$146,901	\$135,141	\$10,122	\$63,483	\$40,880	\$85,918	\$1,285
Research	10,099	—	2,134	4,000	2,850	65	1,050	—
Grants	4,754	—	902	1,259	2,593	—	—	—
Contracts	3,508	—	1,232	954	207	65	1,050	—
Direct	1,837	—	—	1,787	50	—	—	—
Training	127,509	79,101	—	800	30,978	16,100	530	—
Grants	1,726	—	—	650	700	—	376	—
Traineeships	34,070	—	—	—	17,970	16,100	—	—
Fellowships	954	—	—	150	650	—	154	—
Student loans	51,882	51,882	—	—	—	—	—	—
Scholarships & opportunity grants	38,877	27,219	—	—	11,658	—	—	—
Institutional support & devel.	270,521	66,000	131,446	3,200	25,781	23,454	20,640	—
Construction grants	173,875	—	131,446	—	18,781	3,008	20,640	—
Educational improvement	82,750	66,000	—	—	7,000	9,750	—	—
Other†	13,896	—	—	3,200	—	10,696	—	—
Resources support & development	60,566	—	—	—	—	—	60,566	—
Clinical research centers	35,004	—	—	—	—	—	35,004	—
Animal resources	4,568	—	—	—	—	—	4,568	—
Primate centers	10,500	—	—	—	—	—	10,500	—
Special research centers	10,494	—	—	—	—	—	10,494	—
Program management	15,035	1,800	1,561	2,122	3,874	1,261	3,132	1,285
Program direction	11,085	—	1,554	2,116	3,854	1,261	1,015	1,285
Educa. serv. and rev. & approval	3,216	1,800	—	—	—	—	1,416	—
Scientific evaluation	305	—	—	—	—	—	305	—
Reimbursement to management fund	429	—	7	6	20	—	396	—

\* Excludes the revolving fund. † Includes formula grants to schools of public health, project grants to graduate schools of public health, grants to allied health professions training centers to develop new methods, and dental health auxiliary utilization grants.

FUNDS AVAILABLE FOR OBLIGATION, FY 1969: NATIONAL LIBRARY OF MEDICINE  
(In thousands)

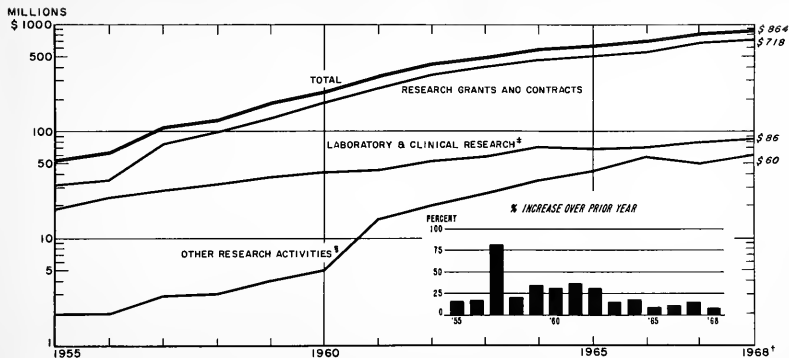
Activities	Total	Extramural Programs	Library Operations	Specialized Information Services	National Medical Audiovisual Center	Lister Hill Nat. Center for Biomedical Communications	Office of Director
Total	\$20,176	\$8,362	\$5,997	\$ 1,452	\$1,962	\$835	\$1,568
Research	1,321	1,321	-	-	-	-	-
Grants	1,321	1,321	-	-	-	-	-
Training	1,089	1,089	-	-	-	-	-
Grants	1,089	1,089	-	-	-	-	-
Institutional support and development	-	-	-	-	-	-	-
Resource support and development	15,534	5,288	5,997	1,452	1,962	835	-
Program management	2,232	664	-	-	-	-	1,568
Review and approval	664	664	-	-	-	-	-
Program direction	1,568	-	-	-	-	-	1,568

# NIH OBLIGATED FUNDS BY FUNCTION, FY 1955-1969\* EXCLUDING PROGRAMS THAT HAVE BEEN TRANSFERRED OUT



\* EXCLUDES MENTAL HEALTH, STATE CONTROL GRANTS, AND REGIONAL MEDICAL PROGRAMS. FY 1969 INCLUDES BHPMT AND NLM. DIRECT CONSTRUCTION EXCLUDED THROUGHOUT.

# NIH FUNDS OBLIGATED FOR RESEARCH, FY 1955-1968\*



\*EXCLUDING NIMH AND REGIONAL MEDICAL PROGRAMS.

†INCLUDES BHPENT & NLM.

‡INCLUDES BIOMETRY, EPIDEMIOLOGY AND FIELD STUDIES.

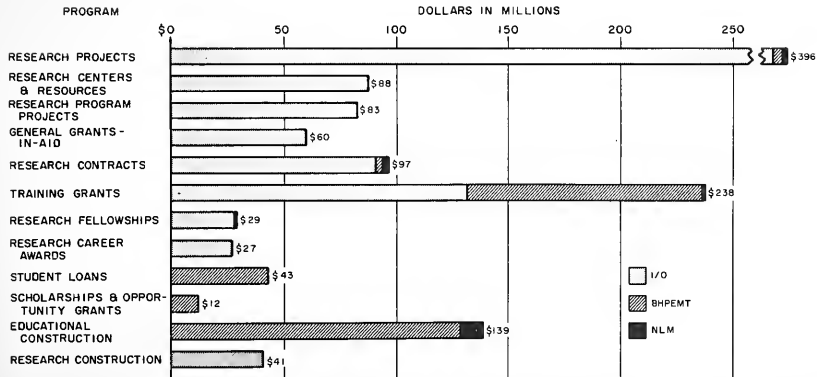
§ INCLUDES COLLAB. STUDIES (EXCEPT CONTRACTS), FOREIGN CURRENCY PROGRAM, AND DIRECT RES. OTHER THAN LAB. & CLIN. EXCLUDES CONSTRUCTION.

NIH GRANTS AND OTHER AWARDS BY YEAR AND TYPE OF AWARD, FY 1955-1968  
(Dollars in millions)

Fiscal year	Total amount*	Research grants †		Construction grants		Training grants		Fellowships, traineeships & res. career awards ‡		Research contracts	
		Number§	Amount	Number§	Amount	Number§	Amount	Number§	Amount	Number	Amount
1955	\$ 55.2	3,280	\$ 35.5	—	\$ —	557	\$ 10.3	1,385	\$ 3.7	—	\$ —
1956	64.7	3,475	40.4	—	—	699	13.5	1,816	4.4	—	—
1957	156.1	6,300	82.9	109	30.0	1,119	25.6	2,575	7.3	43	1.9
1958	191.3	7,134	101.3	177	30.2	1,367	31.9	2,759	8.5	176	11.0
1959	260.2	9,056	141.4	205	31.6	1,934	48.9	3,306	12.7	321	17.2
1960	354.7	11,571	198.8	171	30.8	2,626	73.7	4,255	17.9	286	23.1
1961	481.0	13,534	272.9	156	38.0	3,586	108.4	4,480	24.3	311	22.9
1962	600.3	14,975	372.1	112	36.8	3,697	115.9	4,085	29.6	419	28.1
1963	710.1	15,973	430.9	178	51.3	4,114	140.6	4,561	38.0	496	38.3
1964	815.9	16,020	497.9	129	53.9	4,346	165.9	4,872	44.5	597	42.7
1965	892.8	15,792	538.8	120	64.9	4,568	183.9	5,297	49.8	474	48.6
1966	1,042.2	15,686	601.0	178	100.5	4,731	205.7	5,842	55.7	590	53.3
1967 <sup>  </sup>	926.9	14,313	593.3	75	42.3	2,497	131.7	4,819	50.4	835	83.9
1968 <sup>♦</sup>	972.5	13,270	620.2	51	41.1	2,474	132.0	5,134	54.5	956 <sup>§</sup>	89.8
1968**	1,199.1	13,446	626.0	110	179.7	4,778	237.5	5,377	55.5	1,088 <sup>§</sup>	96.2

\*Includes State control programs, community demonstration projects, staffing grants, and DRMP planning grants. †Includes general research support and research resources grants. ‡Includes part-time and postsophomore research fellows through FY 1961. § Each supplemental grant or supplemental agreement is counted separately. <sup>||</sup>Excludes NIMH; includes DEHS. (All prior years include NIMH.) ♦Excludes BHPENT and NLM, as do prior years. Total includes \$34.9 million for DRMP grants. \*\*Includes BHPENT and NLM (except for student loans, scholarships, and opportunity grants); includes \$3.5 million for medical library resource grants and \$0.7 million for the regional medical library program; excludes \$34.9 million for DRMP grants.

# NIH GRANTS AND OTHER AWARDS BY TYPE OF AWARD, FY 1968



## NIH GRANTS AND OTHER AWARDS BY INSTITUTE OR DIVISION AND TYPE OF AWARD, FY 1968\*

(Dollars in millions)

Institute or Division	Total amount	Research grants†		Construction grants		Training grants		Fellowships‡		Research career awards		Research contracts	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number§	Amount
Total	\$1,199.1 <sup>  </sup>	13,121	\$626.0	109	\$179.7	4,706	\$237.5	3,798	\$28.6	1,267	\$26.8	1,088 <sup>¶</sup>	\$96.2
I/D	937.7	12,947	620.3	51	41.1	2,405	132.0	3,592	27.6	1,267	26.8	956	89.8
NIAID	71.0	1,411	49.0	—	—	187	8.8	148	1.4	122	2.5	146	9.3
NIAMD	112.5	2,503	85.5	—	—	325	15.3	306	3.0	161	3.6	66	5.1
NCI	127.9	1,335	71.6	—	—	209	11.1	211	1.9	98	2.2	364	41.2
NICHD	53.4	1,056	38.1	—	—	150	9.6	136	1.3	109	2.3	33	2.0
NIDR	21.7	339	14.3	—	—	114	5.2	77	0.8	51	1.0	21	0.5
NIEHS	12.0	100	7.9	—	—	51	3.7	6	**	—	—	5	0.3
NIGMS	141.2	1,576	74.1	—	—	650	44.4	2,014	12.4	378	7.7	28	2.5
NHI	133.1	2,123	94.9	—	—	402	17.3	194	2.0	214	4.8	144	14.2
NINDB	96.2	1,771	65.7	—	—	309	16.1	325	3.3	134	2.7	63	8.4
DRFR	159.3	635	116.7	51	41.1	8	0.4	16	0.1	—	—	10	1.0
DBS	1.5	—	—	—	—	—	—	—	—	—	—	28	1.5
DR5, DRG, DCRT	1.4	—	—	—	—	—	—	—	—	—	—	15	1.4
DD, CC, joint	2.2	—	—	—	—	—	—	—	—	—	—	24	2.2
FIC	4.3	98	2.5	—	—	—	—	159	1.4	—	—	9	0.4
BNPEMT	241.2	109	4.2	49	128.6	2,286	104.6	200	0.9	—	—	93 <sup>¶</sup>	3.0
DAHM	12.1	—	—	—	—	295	11.7	—	—	—	—	9	0.4
DDH	6.0	42	1.3	—	—	59	3.6	8	0.1	—	—	36	1.1
DHME5	66.9	—	—	—	—	1,009	66.5	77	0.3	—	—	2	0.1
DN	43.3	60	2.6	23	16.7	923	22.8	115	0.5	—	—	27	0.7
DPM	112.9	7	0.4	26	111.9	—	—	—	—	—	—	16	0.7
NLM	20.3 <sup>  </sup>	65	1.6	9	10.0	15	0.9	6	0.1	—	—	39	3.5

\*Excludes scientific evaluation grants as follows: research grants, \$2.2 million; training grants, \$0.7 million; and research career awards, \$0.03 million. †Includes general research support and research resources grants. ‡Includes 202 traineeships for \$2.3 million in NINDB and 77 traineeships for \$0.3 million in DHME5. §Each supplemental agreement is counted separately. ||Includes \$3.5 million for medical library resource grants and \$0.7 for the regional medical library program. ¶Includes 3 contracts for \$3,644 for the Office of Information, BNPEMT. \*\*Less than \$50,000.



NIH RESEARCH GRANTS BY CATEGORY, FY 1967-1968  
(Dollars in thousands)

Category	1967*				1968†			
	Number	Percent	Dollars	Percent	Number	Percent	Dollars	Percent
Total	13,937	100.0	\$593,313	100.0	13,121	100.0	\$626,018	100.0
Research projects	12,926	92.7	390,014	65.7	12,024	91.6	395,642	63.2
Traditional projects	12,492	89.6	372,442	62.8	11,601	88.4	379,089	60.6
Chemotherapy and psychopharmacology	136	1.0	7,143	1.2	121	0.9	6,725	1.1
International centers for med. res. & training	5	0.0	2,360	0.4	5	0.0	2,264	0.4
Conferences	59	0.4	971	0.2	65	0.5	1,203	0.2
Nursing	-	-	-	-	39	0.3	1,802	0.3
Other	234‡	1.7	7,098‡	1.2	193	1.5	4,559	0.7
Program projects and centers	617	4.4	151,599	25.5	675	5.1	170,702	27.3
Research program projects	325	2.3	69,602	11.7	363	2.8	82,966	13.3
General clinical research centers	89	0.6	28,610	4.8	93	0.7	30,911	4.9
Categorical clinical research centers	72	0.5	22,847	3.9	71	0.5	21,217	3.4
Animal resources	49	0.4	11,902	2.0	58	0.4	15,042	2.4
Special research resources	62	0.4	10,758	1.8	50	0.4	10,529	1.7
Pharmacology-toxicology centers	8	0.1	2,608	0.4	11	0.1	3,253	0.5
Dental research institute program	4	0.0	2,743	0.5	5	0.0	3,000	0.5
Environmental health centers	8	0.1	2,529	0.4	10	0.1	3,000	0.5
Outpatient clinical research program	-	-	-	-	14	0.1	784	0.1
General research support	294	2.1	41,700	7.0	311	2.4	48,174	7.7
Biomedical science support	93	0.7	6,000	1.0	102	0.8	7,500	1.2
Health science support	7	0.1	4,000	0.7	9	0.1	4,000	0.6

\* Excludes NIMH; includes DEHS.

† Includes BHPMT and NLM.

‡ Includes 34 planning grants for \$3.7 million. In FY 1968, planning grants are classified as traditional projects, program projects, or research center grants.

NIH RESEARCH GRANTS BY KIND OF RECIPIENT INSTITUTION, FY 1967 - 1968\*  
(Dollars in millions)

Kind of recipient institution	1967 <sup>†</sup>			1968					
				Excluding BHPEMT and NLM			Including BHPEMT and NLM		
	Number of institutions <sup>‡</sup>	Grants		Number of institutions <sup>‡</sup>	Grants		Number of institutions <sup>‡</sup>	Grants	
		Number	Amount		Number	Amount		Number	Amount
Total	1,129	13,937	\$593.3	1,017	12,947	\$620.2	1,044	13,121	\$626.0
Higher education	379	10,984	462.7	362	10,374	489.4	371	10,506	493.8
Research institutes	131	713	47.1	118	683	51.4	120	685	51.5
Hospitals	208	1,397	64.5	198	1,214	62.8	198	1,224	63.4
Graduate training centers	1	1	§	1	4	0.1	1	4	0.1
Patient centers	15	45	2.8	12	29	2.1	12	32	2.2
Associations, etc.	45	81	2.3	40	71	2.3	49	86	2.5
Government units	19	42	2.7	25	50	3.2	27	56	3.3
Other domestic	33	52	2.7	19	29	1.8	24	34	1.9
Foreign	298	622	8.5	242	493	7.1	242	494	7.1

\* Includes general research support and research resources grants.

<sup>†</sup> Excludes NIMH; includes DEHS.

<sup>‡</sup> The count of institutions considers each branch separately.

<sup>§</sup> Less than \$50,000.

NIH RESEARCH GRANTS BY DISCIPLINE/FIELD, FY 1967 - 1968  
(Dollars in thousands)

Discipline or field*	1967†				1968							
					Excluding BHPEMT and NLM				Including BHPEMT and NLM			
	No. of grants	Percent	Amount	Percent	No. of grants	Percent	Amount	Percent	No. of grants	Percent	Amount	Percent
Total	13,937	100.0	\$593,313	100.0	12,947	100.0	\$620,195	100.0	13,121	100.0	\$626,018	100.0
Research projects	12,909	92.6	387,176	65.3	11,850	91.5	389,819	62.9	12,024	91.6	395,642	63.2
Biochemistry and biophysics	3,080	22.1	89,589	15.1	2,819	21.8	90,172	14.5	2,820	21.5	90,183	14.4
Physiological sciences	2,877	20.6	79,864	13.5	2,577	19.9	78,821	12.7	2,577	19.6	78,821	12.6
Pharmacological and pharmaceut.sc.	896	6.4	29,411	5.0	893	6.9	30,474	4.9	894	6.8	30,481	4.9
Microbiology and parasitology	817	5.9	26,029	4.4	778	6.0	29,131	4.7	779	5.9	29,189	4.7
Pathology	759	5.4	27,912	4.7	665	5.1	26,224	4.2	665	5.1	26,224	4.2
Immunology	708	5.1	22,020	3.7	673	5.2	22,445	3.6	674	5.1	22,482	3.6
Cell biology	622	4.5	17,505	3.0	552	4.3	17,608	2.8	552	4.2	17,608	2.8
Genetics	499	3.6	16,471	2.8	450	3.5	16,093	2.6	450	3.4	16,093	2.6
Chemistry	507	3.6	13,274	2.2	476	3.7	13,742	2.2	476	3.6	13,742	2.2
Growth and development	468	3.4	12,163	2.0	395	3.1	10,074	1.6	397	3.0	10,117	1.6
Psychology	303	2.2	11,218	1.9	278	2.1	9,311	1.5	294	2.2	9,975	1.6
Nutrition	264	1.9	8,098	1.4	241	1.9	8,786	1.4	241	1.8	8,786	1.4
Information and computer sciences	165	1.2	5,437	0.9	175	1.4	6,980	1.1	213	1.6	8,051	1.3
Engineering and bioengineering	172	1.2	6,146	1.0	154	1.2	6,742	1.1	157	1.2	6,888	1.1
Anatomy	238	1.7	6,242	1.1	242	1.9	6,211	1.0	244	1.9	6,268	1.0
Other	534	3.8	15,797	2.7	482	3.7	17,005	2.7	591	4.5	20,734	3.3
Program projects and centers	634	4.5	154,436	26.0	675	5.2	170,702	27.5	675	5.1	170,702	27.3
General grants-in-aid	394	2.8	51,701	8.7	422	3.3	59,674	9.6	422	3.2	59,674	9.5

Rank based on FY 1968 dollars except for program project and center grants and general grants-in-aid.

Excludes NIMH; includes DEHS.

NIH RESEARCH GRANTS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION BY MAJOR COMPONENT, FY 1967 - 1968\*  
(Dollars in thousands)

Major component	1967†		1968			
			Excluding BHPEMT and NLM		Including BHPEMT and NLM	
	No. of grants	Amount	No. of grants	Amount	No. of grants	Amount
Total higher education	10,984	\$462,688	10,374	\$489,401	10,506	\$493,756
Health-related components	7,808	345,221	7,333	364,947	7,423	368,016
Medical	6,723	299,218	6,266	316,460	6,291	317,307
Dental	264	12,486	268	12,220	286	12,844
Public health	160	10,626	154	11,336	160	11,529
Joint‡	255	7,054	247	7,773	248	7,796
Veterinary	186	7,053	183	7,581	184	7,597
Hospitals	50	4,380	49	4,716	49	4,716
Pharmacy	138	3,545	139	4,057	142	4,096
Other health-related	32	859	27	804	63	2,131
Other components	3,176	117,467	3,041	124,454	3,083	125,739
Arts & sciences	2,136	66,760	2,065	71,319	2,088	71,817
Agriculture	413	11,293	352	11,412	353	11,428
Engineering	188	8,288	179	8,711	183	8,936
University-wide	107	9,952	107	8,903	107	8,903
Graduate schools	167	8,965	152	8,216	154	8,241
Organized research units	91	6,123	91	6,352	95	6,551
Primate centers	14	2,930	16	4,707	16	4,707
Computer centers	10	870	14	2,646	14	2,646
Other	50	2,286	65	2,188	73	2,510

\* Includes general research support and research resources grants.

† Excludes NIMH; includes DEHS.

‡ Includes departments of basic medical science serving two or more major components, and Rochester U. School of Medicine and Dentistry.

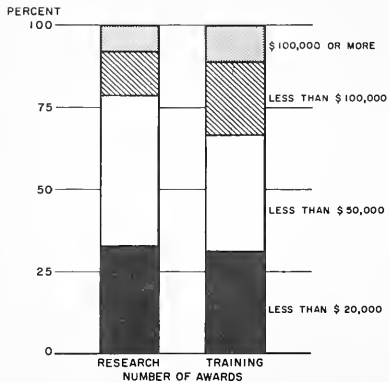
## GRANTEE EXPENDITURES OF NIH RESEARCH AND TRAINING GRANTS, FY 1966\*

Excluding NIMH  
(Dollars in thousands)

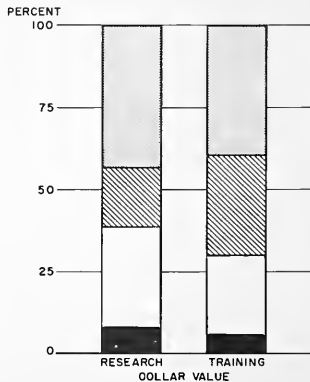
Disposition of funds available	Research projects			Program projects and centers	Grants-in-aid		Training grants
	Total	Traditional	Other		General research support	Other†	
Funds available	\$385,181	\$373,998	\$11,183	\$133,561	\$64,285	\$6,753	\$179,468
Grantee expenditures	358,186	348,673	9,513	114,448	43,273	3,689	120,298
Indirect costs	52,445	51,223	1,222	13,292	—	55	8,171
Direct costs	305,741	297,450	8,291	101,156	43,273	3,634	112,127
Personnel	189,229	184,995	4,234	55,071	22,807	962	36,256
Travel	6,477	5,481	996	967	361	51	2,499
Equipment	37,884	37,305	579	10,482	10,984	1,742	5,962
Supplies	56,056	55,111	945	9,615	4,136	568	9,204
Hospitalization	647	266	381	16,932	59	—	1
Stipends and tuition	n.a.	n.a.	n.a.	n.a.	2,743	103	54,705
Other	15,448	14,292	1,156	8,089	2,183	208	3,500
Grantee unreimbursed expenditures or obligations	(312)	(311)	(1)	(302)	—	—	(132)
Unobligated, unexpended balance	27,307	25,636	1,671	19,415	21,012	3,064	59,302

\*Based on a sample of expenditure reports for FY 1966 which included all program project and center grants, grants-in-aid, grants of \$100,000 and over, and 10 percent of grants under \$100,000. †Planning grants, health sciences advancement awards, and biomedical sciences support grants.  
n.a.: Not applicable.

# PERCENTAGE DISTRIBUTION OF NIH RESEARCH AND TRAINING GRANTS BY DOLLAR-AWARD INTERVALS, FY 1968\*



\*INCLUDES BHPENT AND NLM



NIH RESEARCH AND TRAINING GRANTS BY DOLLAR-AWARD INTERVALS, FY 1968\*  
(Dollars in thousands)

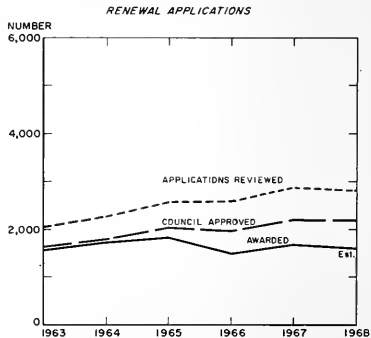
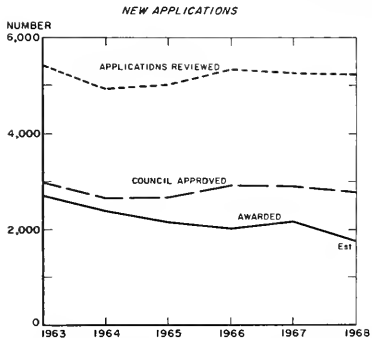
Dollar-award interval	Research grants† (Median award – \$27,800)				Training grants (Median award – \$34,530)			
	Number		Amount		Number		Amount	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent
Total	13,121	100.0	\$626,018	100.0	4,706	100.0	\$237,520	100.0
Less than 5,000	876	6.7	1,956	0.3	418	8.9	1,293	0.5
5,000 – 9,999	724	5.5	5,572	0.9	412	8.8	3,002	1.3
10,000 – 19,999	2,704	20.6	41,421	6.6	626	13.3	9,333	3.9
20,000 – 29,999	2,891	22.0	71,700	11.5	634	13.5	15,933	6.7
30,000 – 39,999	2,029	15.5	69,973	11.2	580	12.3	20,170	8.5
40,000 – 49,999	1,123	8.6	50,038	8.0	460	9.8	20,589	8.7
50,000 – 74,999	1,254	9.6	74,756	11.9	704	15.0	42,984	18.1
75,000 – 99,999	474	3.6	40,539	6.5	345	7.3	29,725	12.5
100,000 – 149,999	372	2.8	44,912	7.2	251	5.3	30,541	12.9
150,000 – 199,999	185	1.4	32,013	5.1	112	2.4	19,697	8.3
200,000 – 299,999	228	1.7	55,249	8.8	128	2.7	30,630	12.9
300,000 – 999,999	246	1.9	110,442	17.6	36	0.8	13,623	5.7
1,000,000 & over	15	0.1	27,447	4.4	0	0	0	0

\*Includes BHPEMT and NLM.

†Includes general research support and research resources grants.

# NIH RESEARCH GRANT APPLICATIONS REVIEWED, APPROVED, AND AWARDED\*

COUNCIL YEARS 1963-1968



\* EXCLUDES NIMH, BHPERT AND NLM.



**AWARD RATES FOR COUNCIL-APPROVED NEW NIH RESEARCH GRANT APPLICATIONS REVIEWED**  
**Council Years 1964, 1966 and 1968\***

Institute or Division	Number reviewed			Approval rates						Award ratios†					
				Number			Amount‡			Number			Amount		
	1964	1966	1968	1964	1966	1968	1964	1966	1968	1964	1966	1968	1964	1966	1968
I/D Total	4,931	5,348	5,229	54.0	54.7	53.1	47.3	48.6	43.1	89.4	69.6	63.0	92.5	76.8	69.3
NIAID	571	611	593	49.0	58.1	59.2	46.8	52.9	53.3	77.1	58.9	67.7	79.5	65.1	69.4
NIAMD	1,030	931	978	55.2	54.1	57.0	47.9	50.6	47.0	92.6	66.3	60.4	93.0	68.3	62.8
NCI	515	483	519	42.7	44.3	49.7	38.8	53.1	45.6	85.0	68.7	75.2	83.6	84.1	76.2
NICHD	298	646	652	57.0	46.6	41.6	46.4	36.5	27.6	95.9	91.0	58.8	97.8	90.0	66.6
NIDR	182	185	177	59.9	51.9	40.7	55.5	43.4	36.2	75.2	65.6	60.0	78.8	65.8	53.4
DEHS/NIEHS§	§	§	97	—	—	48.5	—	—	30.6	—	—	71.7	—	—	74.7
NIGMS	840	945	826	59.0	62.4	60.0	51.8	53.7	46.2	87.5	46.6	35.7	88.7	59.6	59.7
NHI	782	815	740	48.7	52.6	48.4	42.8	43.9	37.6	96.6	90.2	63.8	110.1	87.6	72.7
NINDB	620	607	585	58.5	55.4	57.1	46.8	46.1	44.6	90.6	76.2	88.2	94.6	83.2	87.9
DRFR	47	59	59	63.8	64.4	57.6	56.9	59.1	64.4	100.0	84.2	81.3	90.0	95.9	72.1
OIR/FIC	46	66	3	100.0	92.4	—	100.0	107.3	—	97.8	93.4	—	101.7	85.0	—

\*A council year consists of June, November and March meetings — e.g., council year 1968 consists of the June 1967, November 1967 and March 1968 meetings.

†For CY 1964 and 1966, the ratio is based on the number (or amount) awarded by Institute or Division to the number (or amount) approved by council. For CY 1968 the ratio is estimated from awards on CY 1968 council-approved applications with requested start dates through February 1969.

‡Rate of amount approved to amount requested by grantee. §DEHS was established in 1966.

NIH TRAINING PROGRAM BY TYPE OF AWARD, FY 1963 - 1968  
(Dollars in thousands)

Type of award	1963	1964	1965	1966	1967*	1968	
						Excl. BHPEMT & NLM	Incl. BHPEMT & NLM †
Total	\$178,594	\$210,378	\$233,726	\$261,407	\$182,067	\$186,473	\$292,974
Training grants	140,639	165,908	183,931	205,732	131,695	132,021	237,520
Fellowships	21,611	22,414	25,187	27,881	23,344	25,342	26,042
Postdoctoral	8,346	8,118	7,968	8,168	7,710	8,172	8,172
Predoctoral	7,605	8,500	10,641	12,373	8,244	7,848	7,864
Special	3,855	4,121	4,925	5,674	5,812	6,793	7,466
International	1,196	1,190	1,189	1,190	1,196	1,250	1,250
Other‡	609	484	464	476	381	1,277	1,288
Traineeships	2,150	2,264	2,181	2,047	1,971	2,302	2,604
Research career development awards	10,276	14,285	16,826	20,355	20,276	22,257	22,257
Research career awards	3,918	5,507	5,601	5,391	4,782	4,551	4,551

\* Excludes NIMH; includes DEHS.

† Excludes \$7.1 million for scholarships, \$4.8 million for opportunity grants, and \$43.0 million for student loans.

‡ Supply grants, special allowances, and supplemental fees applicable to previous fiscal years' awards.

NUMBER OF PERSONS IN NIH TRAINING PROGRAMS BY INSTITUTE OR DIVISION, FY 1968\*

Institute or Division	Total	Total			Trainees †				Fellowships and traineeships			Research career program awards
					Under training grants		Under general research support grants and environ- mental health centers					
		Postdoctoral	Predocutorial	Special	Postdoctoral	Predocutorial	Postdoctoral	Predocutorial	Postdoctoral	Predocutorial	Special	Postdoctoral
Total	23,601	8,130	14,765	706	5,272	9,938	195	3,264	1,503	1,563	706	1,160
I/D	23,249	8,039	14,627	583	5,258	9,803	195	3,264	1,426	1,560	583	1,160
NIAID	1,411	568	802	41	348	802	-	-	106	-	41	114
NIAMD	1,521	1,125	280	116	791	280	-	-	186	-	116	148
NCI	1,366	674	622	70	441	622	-	-	141	-	70	92
NICHD	1,316	492	766	58	316	766	-	-	77	-	58	99
NIDR	726	344	355	27	261	342	-	-	37	13	27	46
NIEHS	455	26	428	1	22	368	1	58	3	2	1	-
NIGMS	8,996	1,790	7,049	157	1,141	5,504	-	-	305	1,545	157	344
NHI	2,052	1,156	789	107	874	789	-	-	85	-	107	197
NINDB	1,815	1,485	330	-	1,040	330	-	-	325	-	-	120
DRFR	3,440	228	3,206	6	24	-	194	3,206	10	-	6	-
FIC	151	151	-	-	-	-	-	-	151	-	-	-
BHPMT	264	84	63	117	7	60	-	-	77	3	117	-
DDH	16	7	4	5	7	1	-	-	-	3	5	-
DHME5	77	77	-	-	-	-	-	-	77	-	-	-
DN	171	-	59	112	-	59	-	-	-	-	112	-
NLM	88	7	75	6	7	75	-	-	-	-	6	-

\* Excludes persons under BHPEMT training programs concerned with developing additional manpower for the health and allied health professions as follows:

16,060 trainees, 16,364 persons receiving scholarships or opportunity grants, and 28,634 persons receiving student loans.

† Preliminary. Training in FY 1968 but paid from FY 1967 funds. Includes 9,743 full-time and 8,926 part-time trainees.

## NUMBER OF PERSONS IN NIH TRAINING PROGRAMS BY FIELD, FY 1968\*

Field of training	Total	Indirect trainees†						Fellowships‡			Research career program awards‡
		Under training grants				Under general research support grants					
		Postdoctoral		Predoctoral		Postdoctoral	Predoctoral	Postdoctoral	Predoctoral	Special	
		Total	Full-time	Total	Full-time						
Total	23,734	5,272	3,668	9,938	5,837	195	3,264	1,517	1,569	712	1,267
Biochemistry	2,366	248	149	1,210	881	20	219	224	197	63	185
Microbiology	1,940	222	132	1,133	796	11	111	132	148	47	136
Physiology	1,754	258	158	773	505	17	235	164	136	58	113
Pharmacology	961	153	91	540	394	4	120	39	34	15	56
Anatomy	938	101	69	531	333	3	162	40	53	12	36
Pathology	927	398	281	218	90	15	157	49	8	26	56
Genetics	853	110	57	497	339	2	20	65	71	21	67
Biology	997	88	39	485	285	4	59	122	151	30	58
Other basic sciences	2,329	200	122	1,524	749	4	105	134	247	56	59
Internal medicine	3,007	1,286	1,034	415	36	28	875	62	1	91	249
Surgery	696	379	235	61	—	4	202	20	—	14	16
Other clinical medicine	2,974	1,491	1,071	603	65	37	520	140	1	39	143
Clinical dentistry	451	88	55	15	1	23	273	27	1	11	13
Engineering, health-related	475	47	27	330	216	1	8	8	33	44	4
Biostatistics	376	19	14	316	224	1	13	3	9	12	3
Environmental health	327	14	12	239	182	4	39	15	8	3	5
Psychology	576	50	36	377	304	—	31	50	17	29	22
Social sciences	366	17	13	300	246	—	5	2	16	24	2
Chemistry	722	23	16	114	69	5	20	129	416	6	9
Other	699	80	57	257	122	12	90	92	22	111	35

\* Excludes persons under BHPMT training programs concerned with developing additional manpower for the health and allied health professions.

† Preliminary data. Training in FY 1968 but paid from FY 1967 funds.

‡ Represents number of awards, not number of persons.

NUMBER OF TRAINEES SUPPORTED UNDER NIH TRAINING GRANTS AND GENERAL RESEARCH SUPPORT GRANTS, FY 1968\*  
By Number of Months and Percent of Time in Training and by Academic Level

Number of months and percent of time in training	All academic levels	Medical students	Prebaccalaureate students†	Graduate students	Postdoctoral students
All indirect trainees	18,885	4,411	564	8,367	5,543
Full-time trainees‡	9,750	93	40	5,912	3,705
Part-time trainees	9,135	4,318	524	2,455	1,838
100% of time	7,885	3,639	491	2,293	1,462
75% of time	169	91	6	21	51
50% of time	328	168	5	64	91
25% of time	753	420	22	77	234
Less than 25% of time	—	—	—	—	—
3 months or less	6,381	3,745	477	1,395	764
100% of time	5,966	3,458	466	1,344	698
75% of time	82	73	5	1	3
50% of time	77	56	2	10	9
25% of time	256	158	4	40	54
Less than 25% of time	—	—	—	—	—
3.1 – 7.9 months	2,283	445	38	992	808
100% of time	1,919	181	25	949	764
75% of time	31	13	1	5	12
50% of time	117	84	2	16	15
25% of time	216	167	10	22	17
Less than 25% of time	—	—	—	—	—
8 months or more	471	128	9	68	266
75% of time	56	5	—	15	36
50% of time	134	28	1	38	67
25% of time	281	95	8	15	163
Less than 25% of time	—	—	—	—	—

\* Training in FY 1968 but paid from FY 1967 funds. Excludes persons under BHPMT training programs concerned with developing additional manpower for the health and allied-health professions.

† Includes 191 trainees with no degree held or degree not stated.

‡ Defined as in training for 100 percent of the time for a period of at least 8 months

NIH GRANTS AND OTHER AWARDS BY STATE AND TYPE OF AWARD, FY 1968\*  
(Dollars in thousands)

State	Total amount	Research grants†		Research contracts		Construction grants		Training grants		Fellowships and traineeships		Research career awards		Medical library resource grants‡	
		Number	Amount	Number§	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total U S and Possessions	\$1,189,514	12,639	\$619,597	1,053	\$95,303	109	\$179,701	4,698	\$237,233	3,599	\$26,673	1,267	\$26,809	376	\$4,198
Alabama	11,807	100	4,755	14	2,811	2	1,155	62	2,721	11	86	12	249	3	30
Alaska	517	3	434	-	-	-	-	2	58	2	25	-	-	-	-
Arizona	2,630	30	1,015	1	95	1	500	27	905	15	77	1	14	2	24
Arkansas	2,319	44	1,619	2	13	-	-	21	530	10	65	3	68	2	24
California	135,680	1,435	80,030	107	10,212	6	12,481	423	25,998	593	4,419	124	2,176	45	364
Colorado	12,332	194	7,625	9	404	1	321	68	3,250	53	391	16	289	7	52
Connecticut	33,367	290	12,671	15	854	2	13,761	86	4,519	104	733	32	761	6	68
Delaware	327	12	278	1	6	-	-	2	30	2	11	-	-	1	2
District of Columbia	16,201	145	6,349	63	3,086	2	2,046	66	4,044	51	401	9	184	5	91
Florida	17,181	245	10,752	14	1,184	1	71	93	4,268	38	290	26	534	8	82
Georgia	15,058	149	6,353	7	155	3	4,513	76	3,479	18	166	17	327	6	65
Hawaii	4,345	55	2,743	8	318	1	245	25	956	3	21	1	28	5	34
Idaho	127	-	-	1	5	-	-	10	113	1	5	-	-	2	4
Illinois	49,804	694	29,020	44	3,246	2	1,083	232	13,309	216	1,365	72	1,588	16	193
Indiana	19,357	217	9,402	14	857	1	3,748	83	4,270	105	602	19	423	6	55
Iowa	18,063	156	6,310	4	79	3	7,474	85	3,523	58	354	11	292	5	31
Kansas	7,513	131	4,524	5	187	-	-	61	2,144	36	232	18	379	6	47

See footnotes at end of table

Continued

NIH GRANTS AND OTHER AWARDS BY STATE AND TYPE OF AWARD, FY 1968\* (Cont.)  
(Dollars in thousands)

State	Total amount	Research grants†		Research contracts		Construction grants		Training grants		Fellowship and traineeships		Research career awards		Medical library resource grants‡	
		Number	Amount	Number§	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Kentucky	\$ 7,153	114	\$ 3,827	3	\$ 53	—	\$ —	80	\$ 2,921	11	\$ 72	11	\$ 226	5	\$ 54
Louisiana	28,918	149	8,379	12	1,228	3	14,643	79	4,222	26	168	12	235	4	43
Moine	2,124	30	1,323	6	450	—	—	14	265	1	5	3	75	2	6
Maryland	44,757	378	19,573	95	11,684	2	3,669	129	7,329	179	1,453	42	970	5	79
Massachusetts	94,030	1,007	58,285	94	9,557	6	2,990	299	16,614	463	3,456	137	2,735	13	393
Michigan	38,699	437	19,172	41	4,034	4	5,134	155	8,870	114	805	30	535	13	149
Minnesota	26,787	338	15,548	19	1,423	2	617	138	7,915	67	600	24	567	8	117
Mississippi	3,820	69	2,427	3	154	—	—	33	1,047	12	74	5	93	2	25
Missouri	35,223	320	17,986	14	1,810	1	6,538	130	7,465	71	647	33	707	10	70
Montano	912	18	394	2	18	—	—	17	393	8	43	3	43	2	21
Nebraska	7,482	63	1,996	4	824	1	1,636	54	2,836	7	56	5	90	5	44
Nevada	298	5	99	—	—	—	—	6	179	—	—	—	—	2	20
New Hampshire	2,730	48	1,753	1	10	—	—	27	761	5	47	6	138	2	21
New Jersey	13,774	143	5,730	27	5,015	1	541	63	1,947	58	380	5	97	13	64
New Mexico	6,345	53	1,738	—	—	1	3,903	18	608	5	33	1	15	2	48
New York	176,898	1,903	98,173	123	11,023	14	33,454	511	26,907	394	3,122	165	3,678	51	541
North Carolina	32,616	355	18,348	27	2,078	1	1,218	143	9,103	83	660	48	1,141	6	68
North Dakota	1,024	9	201	3	183	—	—	21	570	4	24	2	40	1	6
Ohio	40,966	453	19,525	44	3,275	4	7,683	177	8,459	108	801	53	1,126	19	97

See footnotes at end of table

Continued

NIH GRANTS AND OTHER AWARDS BY STATE AND TYPE OF AWARD, FY 1968\* (Cont.)  
(Dollars in thousands)

State	Total amount	Research grants†		Research contracts		Construction grants		Training grants		Fellowship and traineeships		Research career awards		Medical library resource grants‡	
		Number	Amount	Number§	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Oklahoma	\$ 11,332	111	\$ 3,791	3	\$ 90	2	\$ 5,174	51	\$ 1,757	18	\$ 145	19	\$ 349	4	\$ 26
Oregon	20,293	179	9,210	8	940	3	6,402	66	3,132	36	270	15	304	4	35
Pennsylvania	77,697	849	40,722	59	4,729	7	12,558	322	15,905	146	1,100	98	2,138	34	545
Rhode Island	3,929	72	2,195	3	339	1	536	26	792	10	60	—	—	2	7
South Carolina	1,965	40	1,097	—	—	—	—	27	784	2	14	2	47	5	23
South Dakota	1,049	9	216	—	—	1	459	17	323	1	2	2	36	2	13
Tennessee	20,345	225	10,839	7	612	6	2,776	95	5,147	42	334	27	591	4	46
Texas	51,108	417	27,624	29	2,552	6	11,956	146	7,037	98	708	49	1,107	13	124
Utah	8,710	109	5,311	6	550	1	632	37	1,510	36	259	20	432	1	16
Vermont	3,033	53	1,683	4	193	—	—	23	897	8	77	7	168	1	15
Virginia	23,443	144	6,392	64	6,040	7	7,523	71	2,951	20	158	14	332	4	47
Washington	23,654	296	14,330	16	974	5	900	102	5,617	106	837	37	817	3	179
West Virginia	2,655	43	1,353	2	219	—	—	32	984	5	34	2	46	1	19
Wisconsin	24,174	268	15,177	22	1,469	1	181	124	5,732	137	972	28	593	6	50
Wyoming	149	5	87	—	—	—	—	4	53	1	7	—	—	1	2
Guam	318	—	—	—	—	1	318	—	—	—	—	—	—	—	—
Puerto Rico	4,475	27	1,213	3	266	3	862	39	2,084	1	7	1	26	1	17

\*Includes BHPEMT and NLM (except for student loans, scholarships, and opportunity grants). Excludes scientific evaluation grants as follows: research grants \$2.2 million, training grants \$0.7 million, and research career awards \$0.03 million.

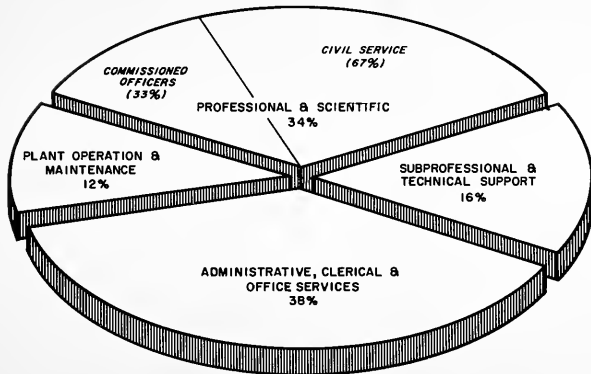
†Includes general research support and research career resources grants.

‡Includes regional medical library program grants.

§Each supplemental agreement is counted separately.



**TOTAL NIH STAFF\***  
**12,046 FULL-TIME SCIENTISTS AND SUPPORTIVE WORKERS**



\* JANUARY 1, 1969

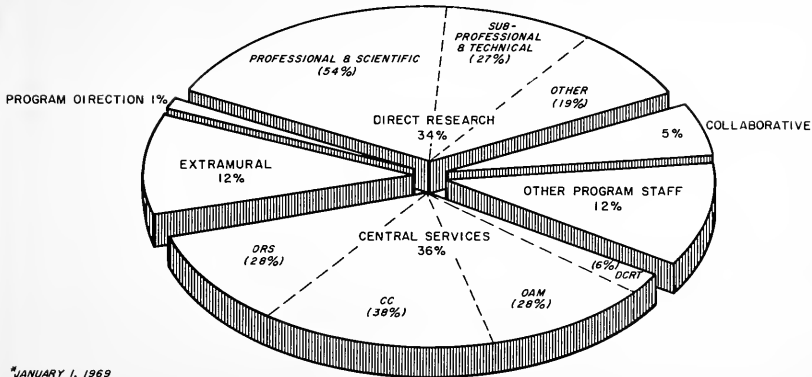
# NIH EMPLOYMENT BY OCCUPATIONAL GROUPING

## January 1, 1969

Total NIH*		12,046
Professional and scientific		4,075
Administration	89	
Direct research	2,113	
Services	1,518	
Division of Research Grants	123	
Other extramural activities	232	
Sub-professional and technical support		1,948
Administrative, clerical, and office services		4,529
Plant operation and maintenance		1,494

\*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL\*  
12,046 FULL-TIME SCIENTISTS AND SUPPORTIVE WORKERS



\*JANUARY 1, 1969

## FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL

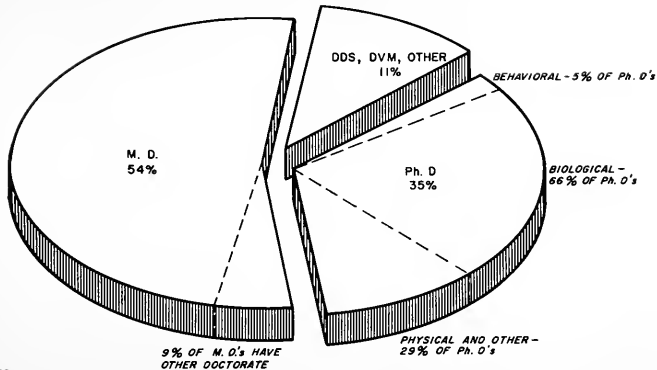
January 1, 1969

Total staff 12,046\*

Direct research		4,125	Central services		4,321
Professional and scientific	2,230		Division of Research Services	1,201	
Doctorate	1,379		Professional and scientific	154	
Nandoctorate	851		Other	1,047	
Sub-professional and technical	1,122		Clinical Center	1,638	
Other	773		Professional and scientific	601	
			Other	1,037	
Collaborative studies		573	Office of Admin. Mgt.	1,222	
Professional and scientific	247		Professional and scientific	3	
Doctorate	123		Other	1,219	
Nandoctorate	124		Div. of Computer Res. & Tech.	260	
Other	326		Professional and scientific	84	
			Other	176	
Extramural research		1,419			
Professional and scientific	359		Program direction (OD-NIH)		128
Other	1,060		Professional and scientific	19	
			Other	109	
			Other program staff		1,480
			Professional and scientific	378	
			Other	1,102	

\* Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

NIH PROFESSIONAL STAFF\*  
2210 PROFESSIONALS WITH DOCTORAL DEGREES



\* JANUARY 1, 1969

# NIH PROFESSIONAL STAFF WITH DOCTORAL DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE

January 1, 1969

Degree	No. of doctors	Distribution of Ph D.'s			
Total*	2,210	Biological	510	Behavioral	40
M.D.	1,199	Biochemistry	172	Psychology	33
(M D 's with other doctorate)	(111)	Microbiology	57	Social sciences	7
Ph.D.	777	Physiology	53		
Biological	510	Bacteriology	43	Physical	174
Behavioral	40	Biology	34	Chemistry	160
Physical	174	Zoology	40	Physics	14
Other	53	Pharmacology	31		
D.D.S.	138	Biophysics	17	Other	53
D V M	54	Entomology	13	Statistics	13
D.Sc.	25	Genetics	12	Mathematics	7
D.Ed	4	Parasitology	10	Miscellaneous	33
D P H	2	Anatomy	6		
D. Med. Sci.	2	Plant pathology	5		
D. Pharm.	3	Plant physiology	5		
D O	1	Botany	2		
D S W	1	Oncology	2		
D.D.	1	Embryology	2		
D. Sc. Hyg	1	Cytology	1		
D.D	1	Endocrinology	1		
Pod D.	1	Mycology	1		
		Virology	1		
		Husbandry	1		
		Neurophysiology	1		

\*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

## CHRONOLOGY OF IMPORTANT DATES IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887** Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891** Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902** Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912** Name of Public Health & Marine Hospital Service changed to Public Health Service.
- 1930** Hygienic Laboratory becomes National Institute of Health.
- 1937** Congress authorizes National Cancer Institute. First research grants.
- 1938** National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).

- 1944 Public Health Service Act, giving general research authority.
- 1945 Research grants extended, with central NIH responsibility.
- 1947 Division of Research Grants established to process NIH grants and fellowships to non-Federal institutions and scientists. First training grants (NCI).
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute and National Institute of Dental Research. NIH becomes National *Institutes* of Health.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Act." National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.



- 1953 Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955 National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services established.
- 1956 Health Research Facilities Act, establishing program of matching grants for research construction in non-Federal institutions.
- 1958 Division of General Medical Sciences created.
- 1959 Office of Administrative Management formed, consolidating managerial activities.
- 1960 Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.

- 1962** Division of Research Facilities & Resources created. National Library of Medicine, constituent of PHS since 1956, moves to NIH reservation.
- 1963** Two Institutes (authorized in 1962) established—National Institute of General Medical Sciences (superseding DGMS) and National Institute of Child Health & Human Development.
- 1964** Division of Computer Research and Technology established.
- 1965** Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1966** Division of Environmental Health Sciences established.
- 1967** National Institute of Mental Health becomes separate bureau of PHS.
- 1968** John E. Fogarty International Center for Advanced Study in the Health Sciences established.

**1968** PHS reorganized under Assistant Secretary for Health & Scientific Affairs, DHEW. Bureau of Health Manpower, formed in PHS the previous year, and National Library of Medicine become constituents of NIH. Regional Medical Programs transferred to new Health Services & Mental Health Administration, PHS.

Lister Hill National Center for Biomedical Communications established at NLM. National Eye Institute authorized. NINDB becomes National Institute of Neurological Diseases & Stroke.

BHM becomes Bureau of Health Professions Education & Manpower Training and acquires the functions of DRFR. DEHS becomes National Institute of Environmental Health Sciences.







BASIC  
DATA

RELATING TO THE

NATIONAL  
INSTITUTES  
OF HEALTH  
1970

*PRINTED IN LIMITED QUANTITY FOR ADMINISTRATIVE USE*

Prepared by the staffs of the  
Associate Director for Program Planning & Evaluation  
and the  
Division of Research Grants

**NATIONAL INSTITUTES OF HEALTH**

June 1970



# DHEW

## PUBLIC HEALTH SERVICE

FDA

EHS

NIH

HSMHA

## BUREAU OF HEALTH PROFESSIONS EDUCATION AND MANPOWER TRAINING

### *Institutional Development*

EDUCATIONAL &  
RESEARCH FACILITIES

HEALTH MANPOWER  
EDUCATIONAL SERVICES

RESEARCH  
RESOURCES

### *Manpower Development*

ALLIED HEALTH  
MANPOWER

DENTAL  
HEALTH

NURSING

PHYSICIAN  
MANPOWER

## NATIONAL INSTITUTES

ALLERGY  
& INFECTIOUS  
DISEASES

ARTHRITIS  
& METABOLIC  
DISEASES

CANCER

CHILD HEALTH  
& HUMAN  
DEVELOPMENT

DENTAL  
RESEARCH

ENVIRONMENTAL  
HEALTH  
SCIENCES

EYE

GENERAL  
MEDICAL  
SCIENCES

HEART & LUNG

NEUROLOGICAL  
DISEASES  
& STROKE

## NATIONAL LIBRARY OF MEDICINE

AUDIO-VISUAL  
CENTER

EXTRAMURAL  
PROGRAMS

LIBRARY  
OPERATIONS

LISTER HILL  
COMMUNICATIONS  
CENTER

SPECIALIZED  
INFORMATION  
SERVICES

## RESEARCH & SERVICE DIVISIONS

BIOLOGICS  
STANDARDS

FOGARTY INTER-  
NATIONAL CENTER

CLINICAL  
CENTER

RESEARCH  
GRANTS

COMPUTER  
RESEARCH &  
TECHNOLOGY

RESEARCH  
SERVICES



## FOREWORD

Basic Data Relating to the National Institutes of Health, first compiled in 1954, has been issued annually since 1961. Single copies of the current number are available from NIH information offices.

All data are derived from NIH records and studies. The Office of Resources Analysis, OD, develops the data on national support for biomedical R&D from annual surveys and other sources. The Statistical Analysis and Surveys Section, SA-DRG, compiles the remaining data and prepares the charts. The Special Projects Branch, OLA-OD, plans, edits and publishes.

The reorganization of DHEW health programs in April 1968 added two major organizations to NIH—the Bureau of Health Professions Education & Manpower Training and the National Library of Medicine. These are included in all NIH data for FY 1968, 1969 and 1970 unless otherwise noted. All NIH data for FY 1967 and thereafter exclude the National Institute of Mental Health, which became a separate bureau in January 1967. See the chronology for other major organizational changes.

Funds for direct construction are excluded from all charts and tables. Scientific evaluation grants, student loans, and the Gorgas Memorial Laboratory grant are excluded from all tables showing number of trainees. Supplemental awards, unless otherwise noted, are combined with their parent awards (or with other supplements) when both are made from the same fiscal-year funds. The NIMH contribution to the general research support program is included in all tables and charts showing research grant data and, beginning in fiscal year 1967, is excluded from those showing appropriations and obligations.

Trainees under BEMT training programs for developing additional health manpower are excluded from all tables showing the number of trainees. Funds under advance obligational authority are excluded from BEMT training program obligations.

Dollars and percents may not exactly add to totals because of rounding.



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## National Library of Medicine

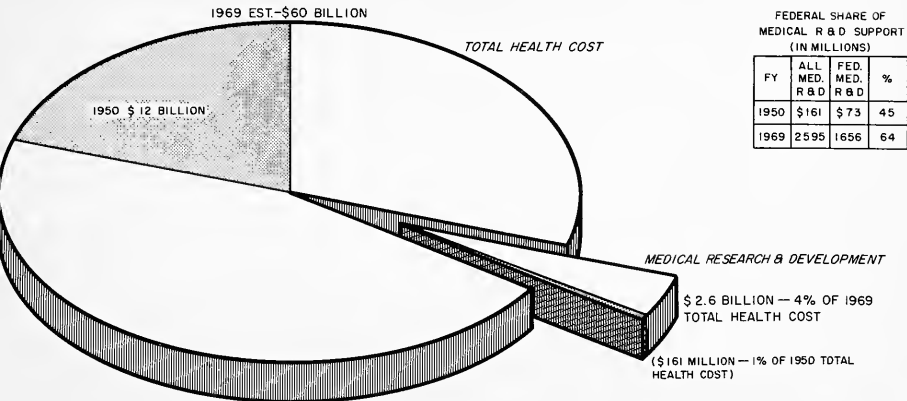
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## History and Glossary

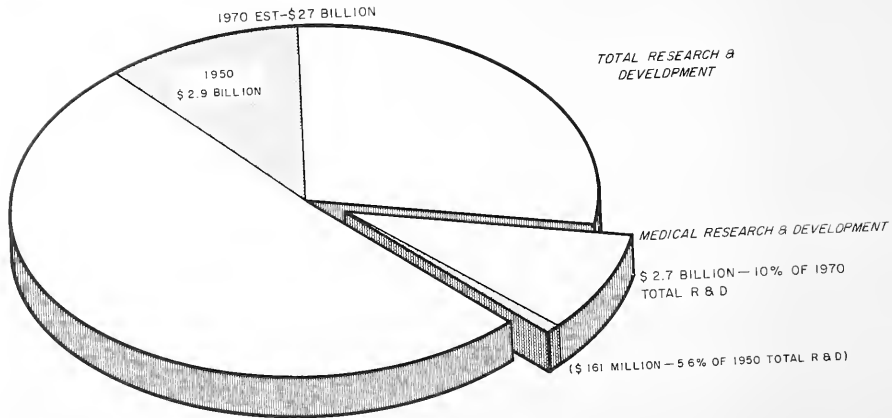
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# MEDICAL R & D AS A PROPORTION OF THE NATION'S TOTAL HEALTH COST 1950-1969

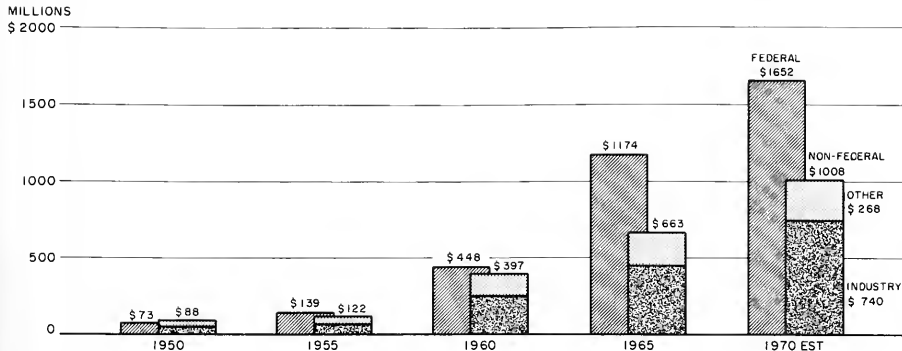


# NATIONAL SUPPORT FOR TOTAL AND MEDICAL R & D 1950-1970



# NATIONAL SUPPORT FOR MEDICAL R & D\*

1950-1970



\*COVERS ONLY MEDICAL AND HEALTH-RELATED R & D — NO TRAINING OR CONSTRUCTION NON-FEDERAL DATA SINCE 1964 ARE NOT STRICTLY COMPARABLE WITH THOSE FOR PRIOR YEARS, AS COVERAGE HAS BEEN IMPROVED.

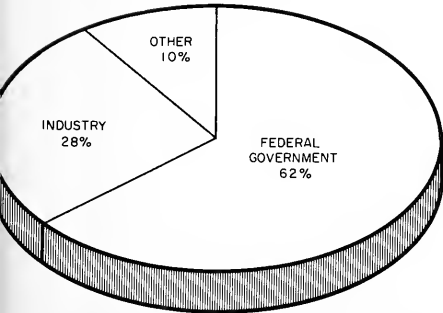
**NATIONAL SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, 1950-1970 \***  
(Obligations in millions of dollars)

Source of funds	1950	1955	1960	1965	1966	1967	1968	1969	1970 est.
<b>Total</b>	<b>\$161</b>	<b>\$261</b>	<b>\$845</b>	<b>\$1,837</b>	<b>\$2,053</b>	<b>\$2,266</b>	<b>\$2,440</b>	<b>\$2,595</b>	<b>\$2,660</b>
Government	73	144	471	1,229	1,377	1,524	1,640	1,728	1,725
Federal	73	139	448	1,174	1,316	1,459	1,571	1,656	1,652
State and local	—	5	23	55	61	65	69	72	73
Industry	51	62	253	450	510	565	615	675	740
Private support	37	55	121	158	166	177	185	192	195
Foundations and health agencies	21	31	76	88	91	100	106	110	112
Other private contributors	—	1	12	25	28	29	30	31	32
Endowment	14	16	19	19	19	19	19	19	19
Institutions' own funds	2	7	14	26	28	29	30	32	32

\*Covers only medical and health-related R&D —no training or construction. Non-Federal data since 1964 are not strictly comparable with those for prior years, as coverage has been improved.

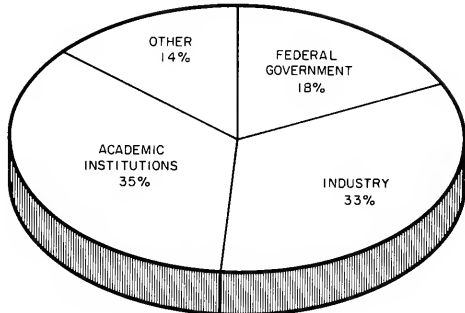
FUNDS OBLIGATED FOR MEDICAL R & D  
UNITED STATES—1970 EST.

*BY SOURCE*



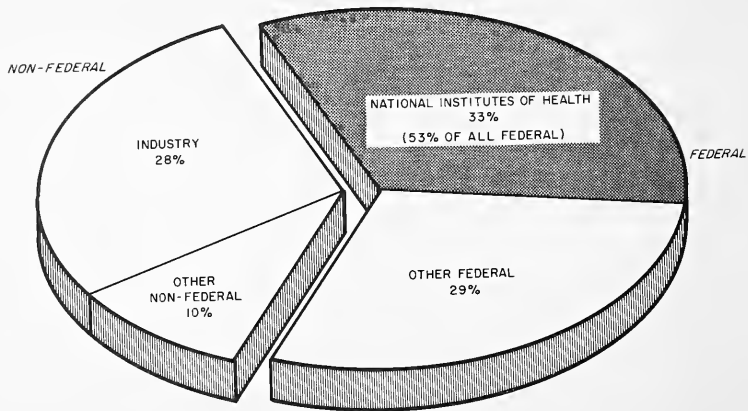
\$ 2.7 BILLION

*BY PERFORMER*



\$ 2.7 BILLION

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL R & D  
1970 EST.



FEDERAL SUPPORT FOR MEDICAL RESEARCH AND DEVELOPMENT, FY 1950-1970\*  
(Obligations in millions of dollars)

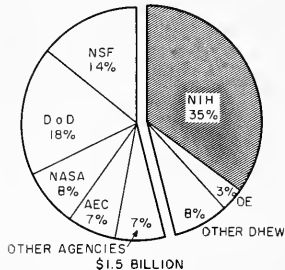
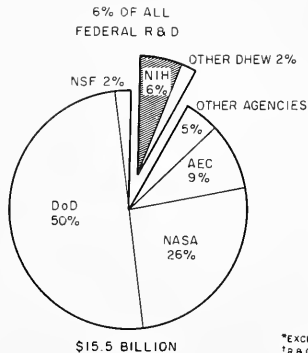
Department	1950		1955		1960		1965		1968		1969		1970 Est.	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total	\$73	100.0	\$139	100.0	\$448	100.0	\$1,174	100.0	\$1,571	100.0	\$1,656	100.0	\$1,652	100.0
AEC	18	24.6	29	20.6	50	11.1	85	7.2	95	6.0	98	5.9	98	5.9
Agriculture	5	6.8	9	6.4	15	3.3	40	3.4	46	2.9	48	2.9	51	3.1
Defense	10	13.7	24	17.0	42	9.5	101	8.6	114	7.3	118	7.1	107	6.5
DHEW	36	49.4	70	49.6	311	69.3	826	70.4	1,128	71.8	1,174	70.9	1,157	70.0
NIH	(28)	(38.4)	(60)	(42.6)	(281)	(62.6)	(715)	(60.9)	(864) <sup>‡</sup>	(54.9)	(890) <sup>‡</sup>	(53.7)	(872) <sup>‡</sup>	(52.8)
Interior	†	—	†	—	1	0.2	1	0.1	3	0.2	4	0.2	13	0.8
NASA	—	—	—	—	1	0.2	60	5.1	109	6.9	117	7.1	117	7.1
NSF	—	—	2	1.4	12	2.7	20	1.7	21	1.3	26	1.6	26	1.6
VA	4	5.5	6	4.3	15	3.3	37	3.2	46	2.9	50	3.0	58	3.5
Other	†	—	1	0.7	2	0.4	4	0.3	11	0.7	21	1.3	25	1.5

\*Covers biomedical research (projects, resources and general support) but not training or construction.

†Less than \$500,000.

‡Contains 8EMT and NLM.

# NIH ACCOUNTS FOR — 35% OF FEDERAL SUPPORT OF R & D AT EDUCATIONAL INSTITUTIONS\*

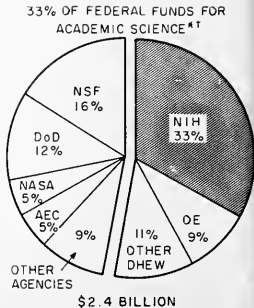


1969 ESTIMATES, IN MILLIONS

AGENCY	R & D	EDUCATIONAL INSTITUTIONS *	
		R & D	ACADEMIC SCIENCE†
ALL FED	\$15,483	\$1,541	\$2,361
OHEW	1,267	713	1,262
NIH	890	538	770
OE	90	44	224
Other DHEW	287	131	268

\*EXCLUDES UNIVERSITY-MANAGED FEDERAL-CONTRACT RESEARCH CENTERS.

†R &amp; D, TRAINING, FACILITIES, RESOURCES





# ESTIMATES OF SUPPLY AND REQUIREMENTS IN SELECTED HEALTH OCCUPATIONS, 1970

Profession	Supply*	Requirements†	Shortage
Physicians‡	318,000	368,000	50,000
Dentists	101,000	116,000	15,000
Nurses (R.N.)	700,000	850,000	150,000
Selected health professions §	177,000	212,000	35,000
Allied health occupations	886,000	1,139,000	253,000

\*Active personnel as of January 1, 1970, except for dentists (as of July 1, 1969).

†Estimated by BEMT according to criteria which vary for each category. ‡Doctors of medicine and osteopathy. §Optometrists, pharmacists, podiatrists, veterinarians.

||Allied medical, dental, and environmental health occupations.

NUMBER OF SCHOOLS, STUDENTS AND GRADUATES OF NINE HEALTH PROFESSIONS, U.S.,  
1963-64 THROUGH 1969-70\*

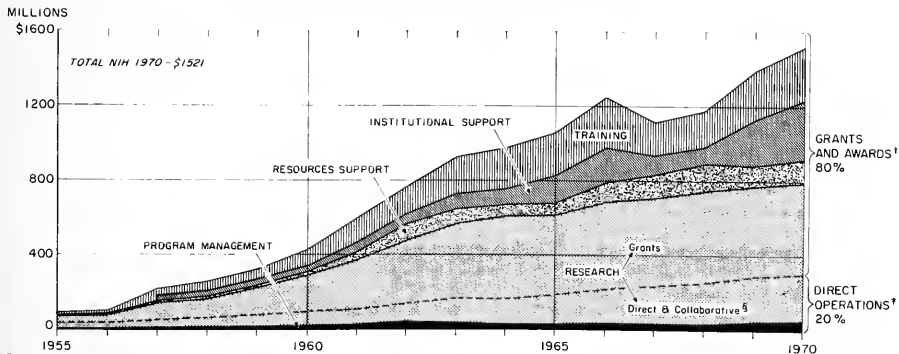
Academic year	Medicine	Osteopathic medicine	Dentistry	Optometry	Pharmacy	Podiatric medicine	Veterinary medicine	Nursing (R.N.) <sup>†</sup>	Public health
Number of schools:									
1963-64	87	5	48	10	76	5	18	1,148	12
1965-66	88	5	49	10	74	5	18	1,193	13
1967-68	95	5	50	10	74	5	18	1,269	15
1969-70	101	6	53	11	74	5	18	1,339	16
Total enrollment:									
1963-64	32,001	1,594	13,691	1,372	10,405	560	3,727	124,744	†
1965-66	32,835	1,681	14,020	1,776	12,495	704	4,128	135,702	†
1967-68	32,538	1,823	14,955	1,998	14,274	921	4,615	141,948	†
1969-70	37,238	1,997	16,008	2,489	15,309	1,097	4,868	150,795	†
First-year students:									
1963-64	8,772	441	3,770	516	4,445	195	1,059	52,667	†
1965-66	8,759	464	3,806	643	4,647	220	1,243	60,701	†
1967-68	9,479	509	4,200	646	5,616	290	1,311	61,389	†
1969-70	10,363	577	4,355	786	5,416	293	1,339	65,000	†
Graduates:									
1963-64	7,336	354	3,213	336	2,218	96	834	35,259	869
1965-66	7,574	360	3,198	417	3,692	135	912	35,125	1,079
1967-68	7,973	427	3,457	477	4,039	162	1,087	41,555	1,298
1969-70	8,267	433	3,650	445	4,780	251	1,206	40,800	1,600 <sup>§</sup>

\*Includes only schools for professions covered by provisions of the Health Professions Educational Assistance Act, the Nurse Training Act, and the Public Health Service Act, Sec. 306 & 309. Data refer to schools in full operation and new schools beginning in the year in which the first students were enrolled.

†Data refer either to nursing schools or to programs for nurse education. ‡Not available. §Preliminary.

# NIH GROWTH AND FUNCTIONS

## CONSOLIDATED APPROPRIATIONS, FY 1955-FY 1970\*



\* CONTAINS ALL PRESENT AND FORMER NIH ACTIVITIES, INCLUDING MENTAL HEALTH THROUGH FY 1966 AND REGIONAL MEDICAL PROGRAMS FY 1966-1968 EXCLUDES DIRECT CONSTRUCTION. † BUT CONTAINS DIRECT TRAINING (\$0.9 MILLION IN FY 1970). ‡ BUT CONTAINS SCIENTIFIC EVALUATION GRANTS (\$2.6 MILLION IN FY 1970). § CONTAINS ALL OF BIOLOGICS STANDARDS; BIOMETRY, EPID., AND FIELD STUDIES; COMPUTER RES. & TECH.; AND INTERNATIONAL RES. (DIRECT).

CONSOLIDATED NIH APPROPRIATIONS, FISCAL YEARS 1956-1970\*  
(In thousands of dollars)

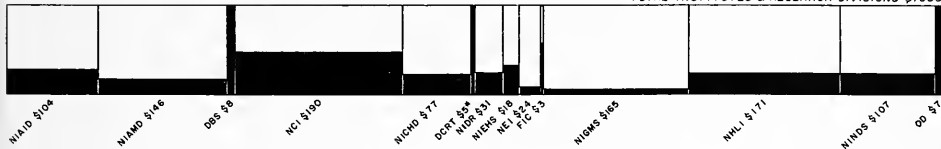
Activity	1956	1958	1960	1962	1964	1966	1967	1968	1969	1970
Total	\$98,458	\$241,183	\$430,000	\$771,585	\$974,454	\$1,244,406	\$1,111,888	\$1,178,924	\$1,394,052	\$1,521,395
Research	69,175	152,244	271,746	436,891	580,939	650,280	671,396	714,067	730,546	739,673
Grants†	39,588	99,629	196,914	339,079	445,881	465,356	468,079	492,746	488,321	487,761
Laboratories & clinics	27,414	38,170	49,885	69,674	71,138	82,728	78,647	81,165	86,648	89,871
Collaborative research & development	900	12,340	22,142	25,088	58,060	91,460	109,726	113,037	126,776	135,200
Other‡	1,273	2,105	2,805	3,050	5,860	10,736	14,944	27,119	28,801	26,842
Training	17,353	39,631	89,942	148,061	219,853	267,603	185,407	194,196	263,338	287,372
Research training & traineeships	14,502	32,932	75,037	118,506	172,602	209,166	133,532	138,076	142,600	148,692
Fel'shps, sch'shps, res. career aw.	2,800	6,440	14,570	29,080	45,786	56,330	50,990	54,991	74,881	76,710
Traineeship grants	—	—	—	—	—	—	—	—	20,020	20,020
Student loans	—	—	—	—	—	—	—	—	24,810	41,098
Direct training	51	259	335	475	1,465	2,107	885	1,129	1,026	852
Institutional support & development	—	30,000	30,000	55,000	86,000	188,700	101,266	91,033	242,791	318,783
Construction	—	30,000	30,000	35,000	56,000	106,000	56,000	35,000	93,200	126,100
Other general support programs§	—	—	—	20,000	30,000	82,700	45,266	56,033	149,591	192,683
Resources support & development	6,490	8,676	17,637	91,000	62,950	104,190	125,253	145,133	111,729	124,461
Clinical research centers	—	—	2,923	59,000	39,950	50,040	51,403	41,593	46,154	54,114
Other special resources	6,490	8,676	14,714	32,000	23,000	54,150♦	73,850♦	103,540♦	65,575	70,347
Program management	5,440	10,632	20,675	40,633	24,712	33,633	28,566	34,495	45,650	51,106

\*Includes NIMH through FY 1966 & BEMT & NLM for FY 1969 & 1970. Excludes direct construction & foreign currency program. †Includes regular programs, heart co-op. drug study, pharmaco-  
tox. research, & ICMRT. ‡Includes biometry, epid. & field studies; biologics standards; computer res. & tech.; & international center (direct). §General res. support, educational improvement, &  
allied health developmental grants. ||Includes, where applicable, state control programs; community demonstration projects; anesthesiology-diagnostic radiology, leukemia research support, mental  
retardation, & specialized research centers, dental research & env. health sci. institutes; animal & special research resources; Gorgas Memorial Lab.; & library resources support & operations.

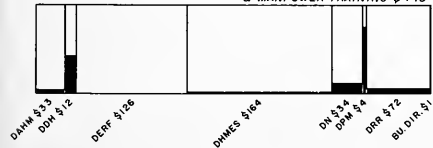
♦Includes regional med. programs.

# NIH APPROPRIATIONS, FISCAL YEAR 1970 (IN MILLIONS OF DOLLARS)

TOTAL INSTITUTES &amp; RESEARCH DIVISIONS \$1056



## BUREAU OF HEALTH PROFESSIONS EDUCATION & MANPOWER TRAINING \$445<sup>†</sup>



## NATIONAL LIBRARY OF MEDICINE



## SERVICE & ADMINISTRATIVE ACTIVITIES (\$50)<sup>‡</sup>



### LEGEND



<sup>‡</sup> FINANCED FROM GR & S APPROPRIATION. <sup>†</sup> FUNDED FROM FIVE APPROPRIATIONS: CONSTRUCTION... \$126 MILLION, DENTAL HEALTH \$12 MILLION, GR & S \$72 MILLION, HEALTH MANPOWER \$234 MILLION, AND PAYMENT OF SALES INSUFFICIENCIES AND INTEREST LOSSES \$1 MILLION. DRR ALSO ADMINISTERS \$52.9 MILLION IN GENERAL RESEARCH SUPPORT GRANTS, FROM ABOVE INSTITUTE APPROPRIATIONS. <sup>\*</sup> FINANCED BY REIMBURSEMENT FROM THE ABOVE APPROPRIATIONS.

ESTIMATED OBLIGATIONS, FISCAL YEAR 1970: TOTAL NIH\*  
(In thousands of dollars)

Activity	Total NIH	Institutes and Research Divisions	Bureau of Health Professions Education and Manpower Training	National Library of Medicine
Total	\$1,443,966	\$981,556	\$442,447	\$19,963
Research	693,711	683,292	9,429	990
Grants	450,098	444,557	4,551	990
Laboratories and clinics	90,764	90,764	—	—
Collaborative research and development	128,215	125,124	3,091	—
Other	24,634	22,847	1,787	—
Training	255,475	178,455	76,037	983
Research training & traineeships	133,681	130,996	1,702	983
Fellowships, scholarships & res. career prog. aw.	71,681	46,771	24,964	—
Traineeship grants	20,020	—	20,020	—
Student loans	29,351	—	29,351	—
Direct training	688	688	—	—
Institutional support and development	332,101	50,310	281,791	—
Construction	149,281	—	149,281	—
Other general support programs	182,820	50,310	132,510	—
Resources support and development	110,060	35,166	59,095	15,799
Clinical research centers	45,440	10,436	35,004	—
Other special resources	64,620	24,730	24,091	15,799
Program management	52,619	34,333	16,095	2,191

\*Obligations = appropriations ± carryover and ± transfers and — reserves. Supplementary data for I/D, BEMT, and NLM are shown in following tables.

ESTIMATED OBLIGATIONS, FISCAL YEAR 1970: INSTITUTES AND RESEARCH DIVISIONS  
(In thousands of dollars)

Activity	Total	NIAID	NIAMD	NCI	NICHD	NIDR	NEI	NIEHS	NIGMS	NHLI	NINDS	FIC
Total	\$981,556	\$97,493	\$131,388	\$180,648	\$74,132	\$28,579	\$23,785	\$17,568	\$148,192	\$160,419	\$95,909	\$2,951
Research	683,292	75,935	98,031	142,476	51,485	15,822	16,794	9,593	71,452	119,354	67,801	1,864
Grants*	444,557	49,123	75,775	58,340	36,448	9,575	15,310	4,525	67,904	81,389	46,038	130
Laboratories & clinics	90,764	15,547	15,897	18,092	6,262	4,954	818	5,068	—	14,090	10,038	—
Collaborative research & development	125,124	11,265	5,650	66,044	6,674	831	332	—	3,548	22,088	8,692	—
Biometry, epidemiology, & field studies	8,428	—	709	—	2,101	462	334	—	—	1,787	3,035	—
Biologics standards† ‡	8,223	—	—	—	—	—	—	—	—	—	—	—
Computer research & technology† ‡	4,462	—	—	—	—	—	—	—	—	—	—	—
International center (direct)	1,734	—	—	—	—	—	—	—	—	—	—	1,734
Training	178,455	12,608	20,494	14,384	12,979	6,695	3,874	3,761	62,032	23,675	16,886	1,067
Research training & traineeships	130,996	8,922	15,012	10,774	9,292	5,166	2,998	3,597	44,127	16,943	14,165	—
Fellowships & res. career aw.	46,771	3,581	5,482	3,610	3,616	1,529	876	164	17,626	6,563	2,657	1,067
Direct training	688	105	—	—	71	—	—	—	279	169	64	—
Institutional support & development§	50,310	5,496	8,852	6,430	4,259	1,119	1,690	528	7,603	8,856	5,477	—
Resources support & development	35,166	1,536	1,380	13,523	2,324	3,780	686	2,850	950	5,092	3,045	—
Categorical clinical research centers	10,436	1,036	1,380	—	449	380	686	—	—	4,250	2,255	—
Dental & envir. health institutes	6,250	—	—	—	—	3,400	—	2,850	—	—	—	—
Other research centers	17,980	—	—	13,523	1,875	—	—	—	950	842	790	—
Gorgas Memorial Laboratory	500	500	—	—	—	—	—	—	—	—	—	—
Program management	34,333	1,918	2,631	3,835	3,085	1,163	741	836	6,155	3,442	2,700	20
Program direction	5,688	319	330	1,136	850	359	130	363	1,108	624	469	—
Scientific evaluation	2,893	100	80	151	200	82	25	20	1,787	163	265	20
Review & approval	17,945	1,499	2,221	2,548	2,035	722	586	453	3,260	2,655	1,966	—
Salaries & expenses, OD†	7,807	—	—	—	—	—	—	—	—	—	—	—

\*Regular programs, heart co-op. drug study, pharma-tox. research, & ICMRT. †Funds included in total but not shown in col. ‡Total approp. §GRS grants admin. by BEMT. ||Anesthesiology-diagnostic radiology, leukemia research support, mental retard., & specialized research centers.

ESTIMATED OBLIGATIONS, FISCAL YEAR 1970: BUREAU OF HEALTH PROFESSIONS EDUCATION AND MANPOWER TRAINING  
(In thousands of dollars)

Activity	Total	DHMES	DPM	DDH	DN	DAHM	DERF	DRR	Dir.
Total	\$442,447	\$148,118	\$2,881	\$10,824	\$34,037	\$31,400	\$150,848	\$62,678	\$1,661
Research	9,429	—	1,252	3,773	2,905	143	—	1,356	—
Grants	4,551	—	837	1,259	2,455	—	—	—	—
Contracts	3,091	—	415	877	300	143	—	1,356	—
Direct	1,787	—	—	1,637	150	—	—	—	—
Training	76,037	44,892	—	800	20,317	9,550	—	478	—
Research training	1,702	—	—	650	700	—	—	352	—
Fel'shps, sch'shps, res. career aw.	24,964	15,541	—	150	9,147	—	—	126	—
Traineeship grants	20,020	—	—	—	10,470	9,550	—	—	—
Student loans	29,351	29,351	—	—	—	—	—	—	—
Direct training	—	—	—	—	—	—	—	—	—
Institutional support & development	281,791	101,400	—	3,651	7,000	20,459	149,281	—	—
Construction grants	149,281	—	—	—	—	—	149,281	—	—
Educational improvement*	131,272	101,400	—	3,651	7,000	19,221	—	—	—
Allied health developmental grants	1,238	—	—	—	—	1,238	—	—	—
Resources support & development	59,095	—	—	—	—	—	—	59,095	—
Clinical research centers	35,004	—	—	—	—	—	—	35,004	—
Animal resources	14,224	—	—	—	—	—	—	14,224	—
Special research resources	9,867	—	—	—	—	—	—	9,867	—
Program management	16,095	1,826	1,629	2,600	3,815	1,248	1,567	1,749	1,661
Program direction	12,236	—	1,598	2,527	3,723	1,227	953	597	1,611
Educ. services, review & approval	3,090	1,791	—	—	—	—	456	843	—
Scientific evaluation	305	—	—	—	—	—	90	215	—
Reimbursement to management fund	464	35	31	73	92	21	68	94	50

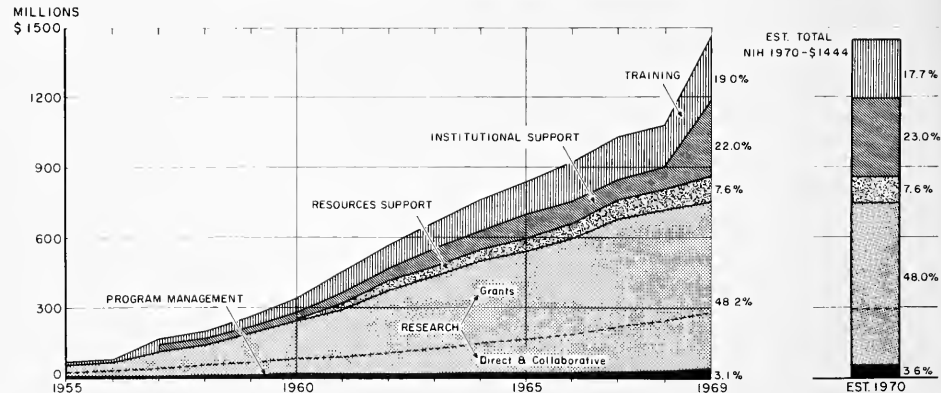
\* Includes institutional and special-project grants for nursing and other health professions; allied health improvement grants; dental auxiliary utilization and continuing education training programs; formula grants to schools of public health; and project grants for graduate training in public health.



**ESTIMATED OBLIGATIONS, FISCAL YEAR 1970: NATIONAL LIBRARY OF MEDICINE**  
(In thousands of dollars)

Activity	Total	Extramural Programs	Library Operations	Specialized Information Services	National Medical Audiovisual Center	Lister Hill Nat. Center for Biomedical Communications	Office of Director
<b>Total</b>	<b>\$19,963</b>	<b>\$6,761</b>	<b>\$7,160</b>	<b>\$1,507</b>	<b>\$2,050</b>	<b>\$898</b>	<b>\$1,587</b>
Research	990	990	—	—	—	—	—
Grants	990	990	—	—	—	—	—
Training	983	983	—	—	—	—	—
Grants	983	983	—	—	—	—	—
Institutional support and development	—	—	—	—	—	—	—
Resources support and development	15,799	4,184	7,160	1,507	2,050	898	—
Program management	2,191	604	—	—	—	—	1,587
Review and approval	604	604	—	—	—	—	—
Program direction	1,587	—	—	—	—	—	1,587

# NIH OBLIGATED FUNDS BY FUNCTION, FY 1955-1970 EXCLUDING PROGRAMS THAT HAVE BEEN TRANSFERRED OUT\*



\* EXCLUDES MENTAL HEALTH, STATE CONTROL GRANTS, AND REGIONAL MEDICAL PROGRAMS. FY 1969 AND FY 1970 INCLUDE BEMT AND NLM. DIRECT CONSTRUCTION EXCLUDED THROUGHOUT.

## NIH OBLIGATED FUNDS BY FUNCTION, EXCLUDING PROGRAMS THAT HAVE BEEN TRANSFERRED OUT, FISCAL YEARS 1956-1970\*

(In thousands of dollars)

Activity	1956	1958	1960	1962	1964	1966	1967	1968	1969	1970 est.
Total	\$76,741	\$197,545	\$337,445	\$565,295	\$755,788	\$926,305	\$1,032,307	\$1,083,424	\$1,465,942	\$1,443,966
Research	60,914	134,664	227,410	360,531	477,433	572,113	652,692	681,825	706,610	693,711
Grants†	35,945	87,551	163,234	268,274	353,295	407,691	457,583	470,961	470,630	450,098
Laboratories and clinics	23,569	33,863	41,682	52,896	61,586	69,592	71,777	77,421	88,090	90,764
Collaborative research & development	—	11,102	19,795	36,325	56,561	86,562	102,443	111,561	122,638	128,215
Other‡	1,400	2,148	2,699	3,036	5,991	8,268	20,889	21,882	25,252	24,634
Training	10,939	25,304	61,519	100,130	133,024	169,124	183,283	187,317	278,814	255,475
Research training & traineeships	8,459	19,298	48,476	76,851	97,872	123,089	133,853	134,276	143,754	133,681
Fel'shps., sch'shps., res. career aw.	2,480	5,872	12,860	23,050	34,725	45,453	48,651	52,192	71,763	71,735
Traineeship grants	—	—	—	—	—	—	—	—	19,873	20,020
Student loans	—	—	—	—	—	—	—	—	42,605	29,351
Direct training	—	134	183	229	427	582	779	849	819	688
Institutional support & development	—	30,000	30,040	52,583	80,370	95,621	85,666	92,617	323,184	332,101
Construction	—	30,000	30,040	35,010	49,990	56,260	40,400	38,400	173,593	149,281
Other general support programs §	—	—	—	17,573	30,380	39,361	45,266	54,217	149,591	182,820
Resources support & development	115	306	4,567	40,342	48,378	67,299	83,930	89,773	112,133	110,060
Clinical research centers	—	—	2,500	26,268	36,757	46,206	39,036	40,974	45,798	45,440
Other special resources	115	306	2,067	14,074	11,621	21,093	44,894	48,799	66,335	64,620
Program management	4,773	7,271	13,909	11,709	16,583	22,148	26,736	31,892	45,201	52,619

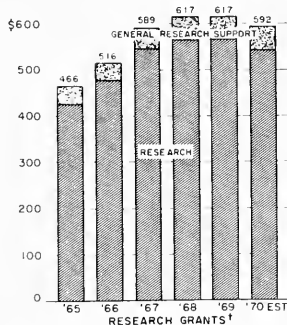
\* Excludes NIMH, state control grants, community demonstration projects, regional medical programs, direct construction, &amp; foreign currency program. Includes BEMT &amp; NLM for FY 1969 &amp; 1970.

† Includes regular programs, heart co-op. drug study, pharma.-tox. research, &amp; ICMRT. ‡ Includes biometry, epid. &amp; field studies; biologics standards; computer res. &amp; tech.; &amp; international center direct). § General res. support, educational improvement, &amp; allied health developmental grants. || Includes, where applicable, anesthesiology-diagnostic radiology, leukemia research support,

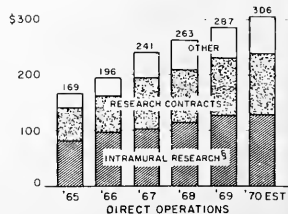
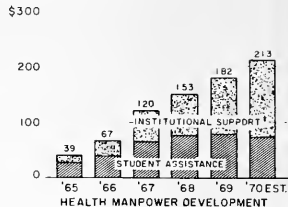
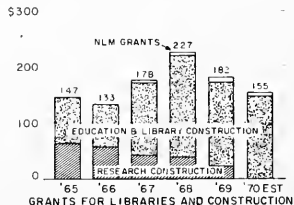
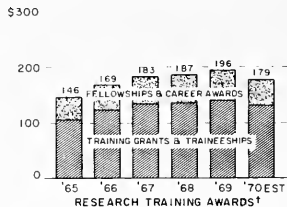
mental retardation, &amp; specialized research centers; dental research &amp; env. health sci. institutes; animal &amp; special research resources; Gorgas Memorial Lab.; &amp; library resources support &amp; operations.

# NIH OBLIGATIONS BY KIND OF PROGRAM, FISCAL YEARS 1965-1970\*

(IN MILLIONS OF DOLLARS)

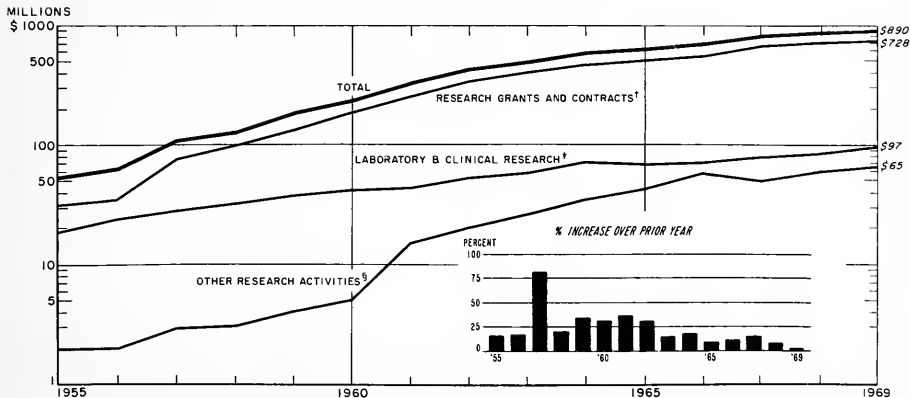


\* ALL PROGRAMS SHOWN AS PRESENTLY AFFILIATED FOR EXAMPLE, BMT AND NLM ARE INCLUDED THROUGHOUT NIMH, DRMP, DIRECT CONSTRUCTION AND THE FOREIGN CURRENCY PROGRAM ARE EXCLUDED † INSTITUTES AND DRR ‡ INCLUDES BMT GRANTS FOR RESEARCH AND RESEARCH TRAINING (\$6 MILLION EST. FOR FY 1970) EXCLUDES CONSTRUCTION, DRR AND GRS § INCLUDES LABS & CLINICS; BIOMETRY, EPID & FIELD STUDIES, DBS, DCRT, AND COLLAB RES & DEV.—EXCEPT RES CONTRACTS.



# NIH FUNDS OBLIGATED FOR RESEARCH AND DEVELOPMENT, FISCAL YEARS 1955-1969\*

21



\*EXCLUDING NIMH AND REGIONAL MEDICAL PROGRAMS.

†INCLUDES DRR AND GRS GRANTS.

‡INCLUDES BIOMETRY, EPIDEMIOLOGY AND FIELD STUDIES.

§INCLUDES COLLAB STUDIES (EXCEPT CONTRACTS), FOREIGN CURRENCY PROGRAM, AND DIRECT RES. OTHER THAN LAB. & CLIN. EXCLUDES CONSTRUCTION.

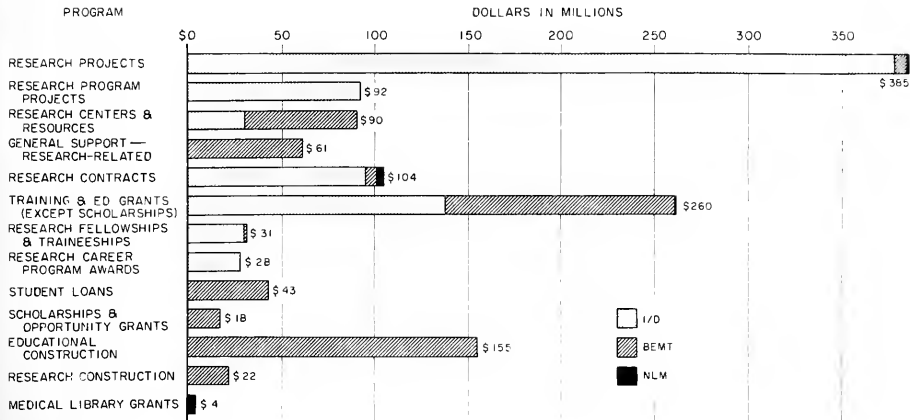
## NIH GRANTS AND AWARDS BY YEAR AND PROGRAM, FISCAL YEARS 1956-1969

(Amounts in millions of dollars)

Fiscal year	Total amount*	Research grants†		Research contracts		Construction grants		Training and education grants		Fellowships, tr'ships & res. career prog. awards‡	
		Number§	Amount	Number	Amount	Number§	Amount	Number§	Amount	Number§	Amount
1956	\$ 64.7	3,475	\$ 40.4	—	\$ —	—	\$ —	699	\$ 13.5	1,816	\$ 4.4
1957	156.1	6,300	82.9	43	1.9	109	30.0	1,119	25.6	2,575	7.3
1958	191.3	7,134	101.3	176	11.0	177	30.2	1,367	31.9	2,759	8.5
1959	260.2	9,056	141.4	321	17.2	205	31.6	1,934	48.9	3,306	12.7
1960	354.7	11,571	198.8	286	23.1	171	30.8	2,626	73.7	4,255	17.9
1961	481.0	13,534	272.9	311	22.9	156	38.0	3,586	108.4	4,480	24.3
1962	600.3	14,975	372.1	419	28.1	112	36.8	3,697	115.9	4,085	29.6
1963	710.1	15,973	430.9	496	38.3	178	51.3	4,114	140.6	4,561	38.0
1964	815.9	16,020	497.9	597	42.7	129	53.9	4,346	165.9	4,872	44.5
1965	892.8	15,792	538.8	474	48.6	120	64.9	4,568	183.9	5,297	49.8
1966	1,042.2	15,686	601.0	590	53.3	178	100.5	4,731	205.7	5,842	55.7
1967	926.9	14,313	593.3	835	83.9	75	42.3	2,497	131.7	4,819	50.4
1968	1,234.0	13,400	626.0	1,088§	96.2	110	179.7	4,749	237.5	5,065	55.5
1969	1,249.9♦	12,578	627.6	1,215§	104.5	77	176.8	4,839	278.0	5,326	58.9

\*Includes, where applicable, State control programs, community demonstration projects, staffing grants, DRMP planning grants, and medical library grants. †Includes general support grants which are research-related and research resources grants. ‡Includes part-time and postsophomore research fellows through FY 1961. § Each supplemental grant or agreement is counted separately. ||Includes 2,449 I/D training grants for \$132.0 million in FY 1968 and 2,396 for \$138.0 million in FY 1969. Also includes educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants. ♦Includes \$2.8 million for medical library resource grants and \$1.4 million for regional medical library program grants.

## NIH GRANTS AND AWARDS BY KIND OF PROGRAM, FISCAL YEAR 1969



**NIH GRANTS AND AWARDS BY INSTITUTE OR DIVISION AND PROGRAM, FISCAL YEAR 1969\***  
(Amounts in millions of dollars)

Institute or Division	Total amount	Research grants <sup>†</sup>		Research contracts		Construction grants		Training and ed. grants		Fellowships <sup>‡</sup>		Res. career prog. aw.	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$1,249.9**	12,435	\$627.6	995	\$104.5	77	\$176.8	4,804	\$278.0	4,061	\$30.9	1,255	\$28.0
I/D	790.5	11,609	500.0	821	95.0	—	—	2,364	138.0	3,827	29.6	1,254	28.0
NIAID	73.2	1,349	50.1	117	9.6	—	—	174	9.4	168	1.5	118	2.6
NIAMD	110.8	2,437	83.2	63	4.9	—	—	315	16.0	306	2.9	156	3.8
NCI	131.9	1,228	73.0	293	42.9	—	—	214	11.7	234	2.1	98	2.2
NICHD	57.8	938	37.7	101	5.9	—	—	154	9.9	173	1.7	108	2.5
NIDR	21.4	285	13.8	16	0.4	—	—	106	5.3	77	0.8	51	1.0
NIEHS	12.3	117	8.1	6	0.4	—	—	48	3.6	16	0.1	4	0.1
NIGMS	143.4	1,486	73.7	12	1.9	—	—	624	46.6	2,080	12.9	393	8.4
NHI	131.8	1,837	90.1	121	16.0	—	—	398	18.8	220	2.1	210	4.9
NINDS	98.7	1,878	67.8	51	7.9	—	—	331	16.6	373	3.8	116	2.6
Other <sup>§</sup>	9.1	54	2.4	41	5.1	—	—	—	—	180	1.6	—	—
8EMT	447.2	768	126.0	136	5.8	74	175.5	2,426	138.7 <sup>  </sup>	229	1.2	1	♦
DAHM	13.2	—	—	8	0.6	—	—	320	12.6	—	—	—	—
DDH	6.2	34	1.3	35	0.9	—	—	57	3.9	12	0.1	1	♦
DERF	21.5	—	—	—	—	20	21.5	—	—	—	—	—	—
DHMES	96.4	—	—	5	0.3	—	—	1,022	95.9	62	0.3	—	—
DN	51.6	56	2.6	55	1.8	33	20.6	1,018	25.9	140	0.6	—	—
DPM	135.6	11	0.9	23	1.2	21	133.4	—	—	—	—	—	—
DRR	122.8	667	121.3	10	1.0	—	—	9	0.4	15	0.1	—	—
NLM	12.1**	58	1.6	38	3.7	3	1.3	14	1.3	5	0.1	—	—

\*Excludes scientific evaluation grants as follows: research, \$2.2 million, training, \$0.9 million, and research career prog. awards, \$0.05 million. †Includes gen. support grants which are research related and research resources grants. ‡Includes 234 traineeships for \$2.8 million, NINDS, and 62 for \$0.3 million, DHMES. §CC, D8S, DCRT, DRS, FIC, OD and joint. ||Includes research training grants, \$1.5 million, educational improvement grants, \$97.1 million, allied health developmental grants, \$1.3 million; scholarship & opportunity grants, \$17.8 million, and traineeship grants, \$21.0 million. ♦Less than \$50,000. \*\*Includes \$2.8 million for medical library resource grants and \$1.4 million for regional medical library program grants.



## NIH GRANTS AND AWARDS BY STATE AND PROGRAM, FISCAL YEAR 1969

(Amounts in thousands of dollars)

State	Total amount	Research grants *		Research contracts		Construction grants		Training and education grants†		Fellowships and traineeships		Research career program awards		Medical library grants‡	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$1,249,851	12,435	\$627,581	995	\$104,487	77	\$176,776	4,804	\$277,971	4,061	\$30,901	1,255	\$27,962	396	\$4,173
Total U.S.	1,242,901	12,112	623,130	966	103,500	77	176,776	4,800	277,904	3,920	29,452	1,255	27,962	396	4,173
Alabama	13,976	93	6,339	15	3,269	2	1,018	59	2,946	20	165	9	217	3	22
Alaska	513	3	438					2	57	2	18				
Arizona	3,242	46	1,390	2	114	2	469	34	1,129	20	89	2	33	2	18
Arkansas	2,799	42	1,448	1	29			27	1,132	17	94	3	78	2	18
California	135,511	1,461	84,553	112	13,056			426	29,949	675	5,215	121	2,251	49	487
Colorado	14,997	202	8,202	11	540	1	1,392	73	4,007	61	480	18	338	7	38
Connecticut	21,176	290	13,388	15	1,302			93	4,866	112	778	30	792	6	50
Delaware	2,108	8	252	3	59	1	1,746	3	36	2	13			1	2
District of Columbia	16,130	140	6,955	35	3,748			68	4,921	48	300	6	130	6	76
Florida	18,297	235	10,054	18	1,773	1	702	95	4,900	41	312	23	494	8	62
Georgia	13,960	159	7,088	11	529	2	1,583	77	4,178	24	206	13	327	6	49
Hawaii	3,867	46	2,312	7	395			22	1,084	3	24	2	26	5	26
Idaho	616	1	15	2	40	1	366	7	188	1	5			1	2
Illinois	59,776	641	28,844	48	5,381	4	6,858	236	15,496	217	1,473	60	1,400	18	324
Indiana	25,318	210	9,103	11	564	4	9,720	84	4,693	108	669	25	528	6	41
Iowa	18,287	152	6,241	10	413	1	7,008	84	3,848	49	340	17	414	5	23
Kansas	8,779	123	4,783	3	121	2	969	58	2,281	29	190	18	400	6	35

See footnotes at end of table.

Continued

NIH GRANTS AND AWARDS BY STATE AND PROGRAM, FISCAL YEAR 1969 (Cont.)  
(Amounts in thousands of dollars)

State	Total amount	Research grants*		Research contracts		Construction grants		Training and education grants†		Fellowships and traineeships		Research career program awards		Medical library grants‡	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Kentucky	\$ 7,474	99	\$ 3,436	4	\$ 80	—	\$ —	78	\$ 3,704	14	\$ 85	5	\$ 129	5	\$ 40
Louisiana	15,088	156	8,475	18	1,120	1	234	81	4,801	24	183	11	259	5	38
Maine	1,918	27	1,305	4	331	—	—	13	204	2	12	3	62	2	4
Maryland	44,977	353	19,006	97	13,851	1	588	138	8,400	219	2,005	47	1,088	5	58
Massachusetts	115,891	930	58,258	73	8,749	3	25,848	296	18,281	462	3,523	130	2,911	13	323
Michigan	50,798	413	18,208	38	3,470	4	17,111	154	10,283	138	877	26	542	15	227
Minnesota	27,068	323	15,976	23	1,608	—	—	136	8,179	75	857	23	561	8	87
Mississippi	4,653	54	2,460	4	253	1	303	32	1,474	9	52	5	83	2	18
Missouri	29,828	306	17,276	13	1,549	—	—	138	8,438	82	709	36	805	10	53
Montana	1,101	15	330	2	41	—	—	20	808	9	50	3	58	2	18
Nebraska	7,198	55	1,713	2	1,042	—	—	64	4,260	7	81	5	89	5	33
Nevada	255	4	43	1	21	—	—	6	176	—	—	—	—	2	15
New Hampshire	3,411	52	2,057	1	28	1	194	22	982	3	27	5	127	2	15
New Jersey	48,925	122	4,906	18	4,653	4	36,834	67	2,002	54	341	8	138	14	53
New Mexico	2,279	47	1,420	1	37	—	—	18	733	5	23	2	30	2	38
New York	176,518	1,840	101,126	103	11,099	11	26,612	507	30,146	407	3,155	164	3,808	55	573
North Carolina	37,139	338	18,421	25	2,407	3	3,561	151	10,698	98	702	52	1,294	7	56
North Dakota	880	8	178	1	101	—	—	22	538	3	13	4	45	1	5
Ohio	40,718	428	19,912	44	2,794	3	5,639	182	10,205	111	917	54	1,168	19	83

\* See footnotes at end of table.

Continued

NIH GRANTS AND AWARDS BY STATE AND PROGRAM, FISCAL YEAR 1969 (Cont.)  
(Amounts in thousands of dollars)

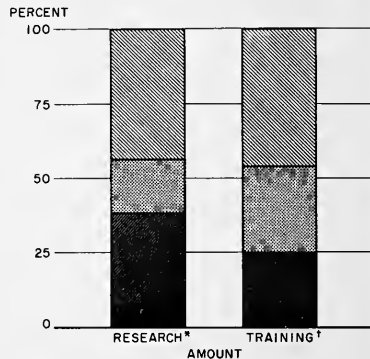
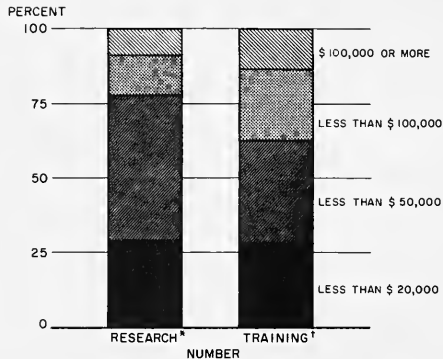
State	Total amount	Research grants*		Research contracts		Construction grants		Training and education grants†		Fellowships and traineeships		Research career program awards		Medical library grants‡	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Oklahoma	5 6,486	109	5 3,918	1	5 21	—	\$ —	47	5 2,092	15	5 129	14	\$ 304	5	\$ 22
Oregon	14,900	163	8,903	7	683	1	1,222	70	3,509	46	311	13	246	4	26
Pennsylvania	77,782	777	39,464	48	4,484	8	10,504	333	18,955	172	1,273	107	2,461	36	641
Rhode Island	3,792	73	2,358	4	548	—	—	21	725	21	136	1	19	2	6
South Carolina	2,538	43	1,244	1	9	—	—	25	1,198	4	23	2	46	5	18
South Dakota	826	11	199	1	31	—	—	23	546	—	—	2	40	2	10
Tennessee	21,754	208	11,321	4	380	1	1,352	106	7,852	42	287	23	528	4	34
Texas	41,466	392	26,357	28	3,378	5	1,426	150	8,351	99	729	48	1,131	13	94
Utah	9,992	109	5,180	7	585	1	1,121	48	2,352	39	276	21	466	1	12
Vermont	5,886	52	1,993	2	155	3	2,409	19	1,045	9	81	8	192	1	11
Virginia	15,989	156	6,277	46	5,177	1	137	81	3,835	24	165	16	363	4	35
Washington	32,503	290	14,611	14	1,314	1	8,354	105	6,092	135	1,073	38	881	3	178
West Virginia	3,082	33	1,205	2	235	—	—	30	1,570	5	31	1	27	1	14
Wisconsin	26,195	246	15,082	23	1,581	3	1,518	116	6,316	157	1,068	31	575	8	55
Wyoming	191	4	84	2	46	—	—	4	59	—	1	—	—	1	1
Guam	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	4,036	24	1,020	3	308	—	—	44	2,615	3	30	2	50	1	13
Virgin Islands	13	—	—	—	—	—	—	1	13	—	—	—	—	—	—
Foreign	6,952	323	4,450	29	987	—	—	4	67	141	1,448	—	—	—	—

\*Includes general support grants which are research-related and research resources grants.

†Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants

‡Includes medical library resources grants and regional medical library program grants.

# PERCENTAGE DISTRIBUTION OF NIH RESEARCH, TRAINING AND EDUCATION GRANTS BY DOLLAR-AWARD INTERVAL, FISCAL YEAR 1969



\* INCLUDES GENERAL SUPPORT GRANTS WHICH ARE RESEARCH-RELATED AND RESEARCH RESOURCES GRANTS  
IMPROVEMENT, ALLIED HEALTH DEVELOPMENT, SCHOLARSHIP & OPPORTUNITY, AND TRAINEESHIP GRANTS.

† INCLUDES RESEARCH TRAINING, EDUCATIONAL

NIH RESEARCH, TRAINING AND EDUCATION GRANTS BY DOLLAR-AWARD INTERVAL, FISCAL YEAR 1969  
(Amounts in thousands of dollars)

Dollar-award interval	Research grants* (Median award — \$28,900)				Training and education grants† (Median award — \$37,750)			
	Number	Percent	Amount	Percent	Number	Percent	Amount	Percent
Total	12,435	100.0	\$627,581	100.0	4,804	100.0	\$277,971	100.0
Less than \$5,000	585	4.7	1,299	0.2	312	6.5	877	0.3
\$5,000 — \$9,999	556	4.5	4,202	0.7	429	8.9	3,155	1.1
\$10,000 — \$19,999	2,494	20.1	38,620	6.2	606	12.6	8,904	3.2
\$20,000 — \$29,999	2,907	23.4	72,382	11.5	640	13.3	16,055	5.8
\$30,000 — \$39,999	1,981	15.9	68,437	10.9	536	11.2	18,633	6.7
\$40,000 — \$49,999	1,193	9.6	53,047	8.5	474	9.9	21,366	7.7
\$50,000 — \$74,999	1,218	9.8	73,049	11.6	782	16.3	47,824	17.2
\$75,000 — \$99,999	453	3.6	38,934	6.2	376	7.8	32,596	11.7
\$100,000 — \$149,999	355	2.9	42,983	6.8	293	6.1	35,370	12.7
\$150,000 — \$199,999	200	1.6	34,496	5.5	137	2.9	23,794	8.6
\$200,000 — \$299,999	222	1.8	54,640	8.7	122	2.5	29,504	10.6
\$300,000 — \$999,999	253	2.0	115,906	18.5	96	2.0	38,809	14.0
\$1,000,000 & over	18	0.1	29,584	4.7	1	‡	1,084	0.4

\* Includes general support grants which are research-related and research resources grants. † Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants. Median I/D research training grant: \$48,500. ‡ Less than 0.05 percent.

**NIH RESEARCH GRANTS BY KIND OF PROGRAM, FISCAL YEARS 1968 & 1969**  
(Amounts in thousands of dollars)

Kind of program	1968				1969			
	Number	Percent	Amount	Percent	Number	Percent	Amount	Percent
Total	13,121	100.0	\$626,018	100.0	12,435	100.0	\$627,581	100.0
Research projects	12,024	91.6	395,642	63.2	11,274	90.7	384,725	61.3
Traditional	11,601	88.4	379,089	60.6	10,828	87.1	366,029	58.3
Chemotherapy and psychopharmacology	121	0.9	6,725	1.1	161	1.3	8,123	1.3
U.S.-Japan cooperative medical science program	81	0.6	3,864	0.6	121	1.0	4,833	0.8
International centers for med. res. and training	5	*	2,264	0.4	5	*	2,294	0.4
Nursing	39	0.3	1,802	0.3	40	0.3	2,011	0.3
Conferences	65	0.5	1,203	0.2	58	0.5	1,059	0.2
Other	112	0.9	695	0.1	61	0.5	378	0.1
Program projects and centers	675	5.1	170,702	27.3	710	6.7	182,155	29.0
Research program projects	363	2.8	82,966	13.3	405	3.3	92,096	14.7
General clinical research centers	93	0.7	30,911	4.9	94	0.8	35,004	5.6
Categorical clinical research centers	71	0.5	21,217	3.4	61	0.5	19,255	3.1
Animal resources	58	0.4	15,042	2.4	66	0.5	14,537	2.3
Special research resources	50	0.4	10,529	1.7	46	0.4	10,494	1.7
Pharmacology-toxicology centers	11	0.1	3,253	0.5	9	0.1	3,969	0.6
Dental research institute program	5	*	3,000	0.5	5	*	3,000	0.5
Environmental health centers	10	0.1	3,000	0.5	8	0.1	2,993	0.5
Outpatient clinical research program	14	0.1	784	0.1	16	0.1	807	0.1
General support — research-related	422	3.2	59,674	9.5	451	3.6	60,700	9.7
General research support	311	2.4	48,174	7.7	330	2.7	48,200	7.7
Biomedical sciences support	102	0.8	7,500	1.2	110	0.9	7,500	1.2
Health sciences advancement	9	0.1	4,000	0.6	11	0.1	5,000	0.8

\* Less than 0.05 percent.

**NIH RESEARCH GRANTS BY KIND OF RECIPIENT INSTITUTION, FISCAL YEARS 1968 & 1969\***  
(Amounts in millions of dollars)

Kind of recipient institution	1968			1969		
	Number of institutions†	Grants		Number of institutions†	Grants	
		Number	Amount		Number	Amount
<b>Total</b>	<b>1,044</b>	<b>13,121</b>	<b>\$626.0</b>	<b>953</b>	<b>12,435</b>	<b>\$627.6</b>
Higher education	371	10,506	493.8	345	10,133	499.3
Research institutes	120	685	51.5	128	664	51.1
Hospitals‡	198	1,224	63.4	190	1,140	63.5
Graduate training centers	1	4	0.1	2	3	0.1
Patient centers	12	32	2.2	11	26	2.2
Associations, etc.	49	86	2.5	40	71	2.2
Government units	27	56	3.3	21	45	2.6
Other domestic	24	34	1.9	22	29	2.0
Foreign	242	494	7.1	194	324	4.6

\* Includes general support grants which are research-related and research resources grants. † The count of institutions considers each branch separately. ‡ Independent hospitals and those owned by institutions not classified as "higher education" or "research institutes." Excludes foreign hospitals.

NIH RESEARCH GRANTS TO DOMESTIC INSTITUTIONS OF HIGHER EDUCATION BY MAJOR COMPONENT,  
FISCAL YEARS 1968 & 1969\*  
(Amounts in thousands of dollars)

Major component	1968		1969	
	Number	Amount	Number	Amount
Total	10,506	\$493,756	10,133	\$499,341
Health-related components	7,423	368,016	7,102	373,958
Medical	6,291	317,307	6,019	322,418
Dental	286	12,844	243	12,185
Medical and dental -- joint	248	7,796	248	8,544
Public health	160	11,529	166	11,774
Veterinary	184	7,597	179	7,937
Hospitals†	49	4,716	51	4,838
Pharmacy	142	4,096	131	3,923
Other health-related	63	2,131	65	2,339
Arts & sciences and graduate schools	2,242	80,058	2,209	79,777
Other components	841	45,681	822	45,606
Agriculture	353	11,428	338	10,593
Engineering	183	8,936	178	9,594
University-wide	107	8,903	120	8,907
Organized research units	95	6,551	100	6,913
Primate centers	16	4,707	20	4,654
Computer centers	14	2,646	7	2,339
Other	73	2,510	59	2,606

\* Includes general support grants which are research-related and research resources grants. † Hospitals owned by institutions of higher education, except those administered by medical schools.

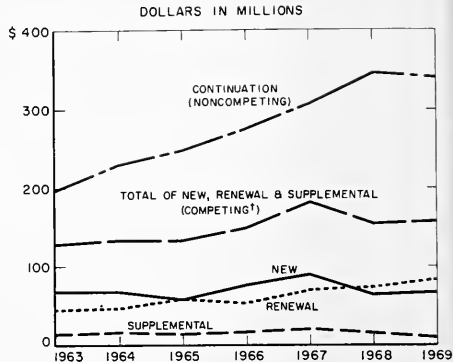
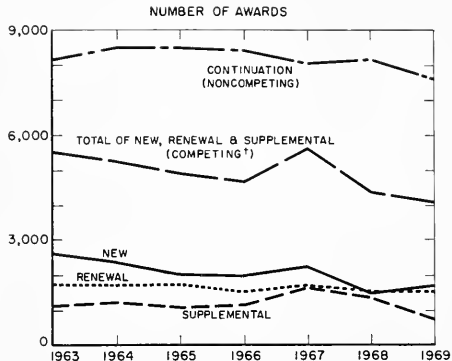


**NIH RESEARCH GRANTS BY DISCIPLINE OR FIELD, FISCAL YEARS 1968 & 1969**  
(Amounts in thousands of dollars)

Discipline or field	1968				1969			
	Number	Percent	Amount	Percent	Number	Percent	Amount	Percent
<b>Total</b>	<b>13,121</b>	<b>100.0</b>	<b>\$626,018</b>	<b>100.0</b>	<b>12,435</b>	<b>100.0</b>	<b>\$627,581</b>	<b>100.0</b>
Research projects*	12,024	91.6	395,642	63.2	11,274	90.7	384,725	61.3
Biochemistry and biophysics	2,820	21.5	90,183	14.4	2,703	21.7	88,298	14.1
Physiological sciences	2,577	19.6	78,821	12.6	2,390	19.2	74,698	11.9
Pharmacological and pharmaceut. sc.	894	6.8	30,481	4.9	849	6.8	30,454	4.9
Microbiology and parasitology	779	5.9	29,189	4.7	760	6.1	29,587	4.7
Pathology	665	5.1	26,224	4.2	573	4.6	22,972	3.7
Immunology	674	5.1	22,482	3.6	620	5.0	22,203	3.5
Cell biology	552	4.2	17,608	2.8	481	3.9	16,663	2.7
Genetics	450	3.4	16,093	2.6	428	3.4	15,355	2.4
Chemistry	476	3.6	13,742	2.2	466	3.7	14,089	2.2
Psychology	294	2.2	9,975	1.6	311	2.5	10,895	1.7
Growth and development	397	3.0	10,117	1.6	346	2.8	9,607	1.5
Nutrition	241	1.8	8,786	1.4	220	1.8	8,206	1.3
Information and computer sciences	213	1.6	8,051	1.3	203	1.6	8,032	1.3
Engineering and bioengineering	157	1.2	6,888	1.1	168	1.4	7,683	1.2
Anatomy	244	1.9	6,268	1.0	235	1.9	5,734	0.9
Other	591	4.5	20,734	3.3	521	4.2	20,250	3.2
Program projects and centers	675	5.1	170,702	27.3	710	5.7	182,155	29.0
General support — research-related	422	3.2	59,674	9.5	451	3.6	60,700	9.7

\* Rank based on FY 1969 total amount awarded.

# NIH RESEARCH GRANTS BY TYPE FISCAL YEARS 1963-1969 \*

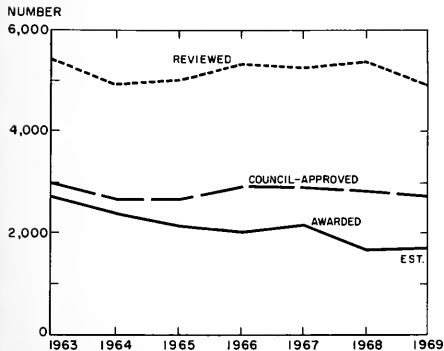


\* EXCLUDES NIMH, BEMT, NLM AND ORFR FOR ALL YEARS.

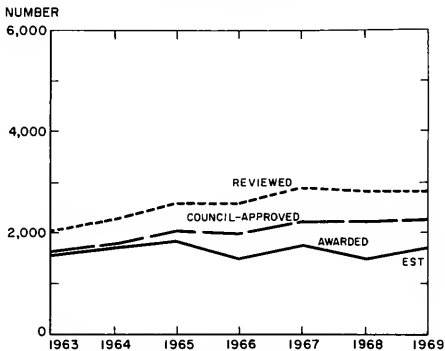
<sup>†</sup> BUT CONTAINS SOME SUPPLEMENTS NOT REVIEWED BY ADVISORY COUNCILS.

# NIH COMPETING RESEARCH GRANT APPLICATIONS REVIEWED, APPROVED AND AWARDED COUNCIL YEARS 1963-1969\*

NEW APPLICATIONS



RENEWAL APPLICATIONS



\*EXCLUDES NIMH FOR ALL YEARS; INCLUDES BMT AND NLM FOR COUNCIL YEARS 1968 AND 1969. CONTAINS NO SUPPLEMENTS.

AWARD RATES FOR COUNCIL-APPROVED NEW NIH RESEARCH GRANT APPLICATIONS\*  
Council Years 1965, 1967 and 1969†

Institute or Division	Number reviewed			Approval rates						Award rates‡					
				Number			Amount (direct cost) §			Number			Amount (direct cost)		
	1965	1967	1969	1965	1967	1969	1965	1967	1969	1965	1967	1969	1965	1967	1969
Total	5,011	5,276	4,943	53.5%	55.2%	55.3%	46.4%	44.8%	41.6%	80.1%	74.0%	62.8%	82.2%	78.9%	61.9%
I/D	5,011	5,276	4,741	53.5	55.2	55.5	46.4	44.8	43.2	80.1	74.0	62.7	82.2	78.9	62.6
NIAID	518	588	627	54.1	61.2	56.3	48.7	54.6	49.0	60.0	77.8	53.2	67.5	81.3	58.3
NIAMD	934	920	913	53.2	55.0	59.8	46.8	45.8	45.3	85.9	78.9	68.2	86.3	80.0	65.5
NCI	458	490	506	44.1	48.4	56.3	43.9	39.3	44.3	92.6	76.4	50.9	94.8	83.7	59.9
NICHD	574	617	611	46.3	47.2	46.6	33.7	35.6	36.7	95.9	72.5	49.6	95.5	75.2	54.5
NIDR	205	186	157	50.7	45.2	48.4	44.2	55.7	38.7	50.0	75.0	47.9	40.9	75.4	52.9
DEHS/NIEHS		41	79		36.6	46.8		25.0	33.1		80.0	55.6		89.0	62.2
NIGMS	857	891	680	63.2	61.4	59.1	59.6	43.4	46.4	66.6	45.9	48.6	72.1	59.7	50.4
NHI	734	732	572	48.2	48.4	49.8	39.6	40.8	37.2	96.3	81.6	81.3	95.8	88.3	73.1
NINDS/NINDS	628	681	596	57.5	61.7	60.7	48.4	52.9	45.8	78.4	90.2	86.9	82.3	99.5	83.5
DRFR	61	57		60.7	61.4		46.5	51.6		100.0	82.9		88.5	69.1	
OIR/FIC	42	73	—	95.2	89.0	—	100.0	100.8	—	97.5	96.9	—	97.6	91.0	—
BEEMT			151			48.3			25.0			65.7			47.8
DAHM			2			—			—			—			—
DDH			19			36.8			17.7			100.0			85.8
DHMS			—			—			—			—			—
DN			36			41.7			17.4			100.0			100.8
DPM			17			29.4			28.8			100.0			102.1
DRR			77			59.7			35.3			45.5			32.2
NLM			51			54.9			43.6			61.5			82.8

\* Excludes NIMH for council years 1965 and 1967. † A "council year" consists of June, Nov. and Mar. meetings — i.e., CY 1969 starts at June 1968. ‡ For CY 1965 and 1967, the rate is based on the number (or amount) awarded by Institute or Division to the number (or amount) approved by council. For CY 1969, the rate is estimated from awards on applications approved in CY 1969 with requested start dates in fiscal 1969. § Rate of amount approved to amount requested by grantee.

NIH TRAINING GRANTS AND AWARDS BY PROGRAM, FISCAL YEARS 1963-1969  
(In thousands of dollars)

Program	1963	1964	1965	1966	1967	1968*	1969*
Total	\$178,594	\$210,378	\$233,726	\$261,407	\$182,067	\$292,931	\$336,834
Training & education grants	140,639	165,908	183,931	205,732	131,695	237,477 <sup>†</sup>	277,971 <sup>†</sup>
Fellowships	21,611	22,414	25,187	27,881	23,344	26,042	27,873
Postdoctoral	8,346	8,118	7,968	8,168	7,710	8,172	8,983
Predoctoral	7,605	8,500	10,641	12,373	8,244	7,864	7,467
Special	3,855	4,121	4,925	5,674	5,812	7,466	8,954
International	1,196	1,190	1,189	1,190	1,196	1,250	1,595 <sup>‡</sup>
Other <sup>§</sup>	609	484	464	476	381	1,288	873
Traineeships	2,150	2,264	2,181	2,047	1,971	2,604	3,028
Research career program awards	14,194	19,792	22,427	25,746	25,058	26,808	27,962
Research career development	10,276	14,285	16,826	20,355	20,276	22,257	19,195
Modified research career development	—	—	—	—	—	—	4,367
Research career	3,918	5,507	5,601	5,391	4,782	4,551	4,400

\* Excludes student loans of \$45 million in FY 1968 and \$43 million in FY 1969.   <sup>†</sup> Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants.   <sup>‡</sup> Includes \$193,000 for the Fogarty International Scholarship Program.   <sup>§</sup> Supply grants, special allowances, and supplemental fees applicable to awards in previous fiscal years.

**NIH SUPPORT OF TRAINING AND EDUCATION BY KIND OF RECIPIENT INSTITUTION, FISCAL YEAR 1969**  
(Amounts in millions of dollars)

Kind of recipient institution	Training and education grants*			Fellowships and traineeships			Research career program awards		
	Number of institutions†	Number	Amount	Number of institutions†	Number	Amount	Number of institutions†	Number	Amount
Total	1,034	4,804	\$278.0	335	4,061	\$30.9	196	1,255	\$28.0
Higher education	498	3,955	260.7	187	3,612	26.4	153	1,164	26.0
Research institutes	20	43	2.0	31	208	2.0	15	31	0.7
Hospitals †	429	667	12.6	30	83	0.9	23	52	1.2
Graduate training centers	1	1	§	3	11	0.1	—	—	—
Patient centers	3	4	0.1	3	3	§	1	4	§
Associations, etc.	19	37	0.9	1	1	§	2	2	§
Government units	34	52	0.9	2	2	§	2	2	§
Other domestic	27	41	0.6	—	—	—	—	—	—
Foreign	3	4	0.1	78	141	1.4	—	—	—

\* Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants. † Each branch counted separately. ‡ Independent hospitals and those owned by institutions not classified as "higher education" or "research institutes." Excludes foreign hospitals. § Less than \$50,000.

NIH SUPPORT OF TRAINING AND EDUCATION AT ACADEMIC INSTITUTIONS BY MAJOR COMPONENT, FISCAL YEAR 1969\*  
(Amounts in thousands of dollars)

Major component	Training and education grants†		Fellowships and traineeships		Research career program awards	
	Number	Amount	Number	Amount	Number	Amount
Total	3,955	\$260,660	3,612	\$26,437	1,164	\$25,973
Health-related components	3,193	221,568	1,589	13,743	962	21,869
Medical	1,964	140,437	1,294	11,359	850	19,445
Dental	304	28,199	47	451	36	716
Medical and dental—joint	61	3,274	32	272	30	740
Public health	212	16,689	59	489	25	557
Nursing	402	16,271	10	45	—	—
Pharmacy	100	3,755	63	358	6	83
Optometry	29	3,633	2	17	—	—
Osteopathy	25	2,877	—	—	—	—
Podiatry	16	1,990	—	—	—	—
Veterinary	36	1,871	74	690	11	242
Other health-related	44	2,572	8	62	4	86
Arts & sciences and graduate schools	572	28,095	1,676	10,040	169	3,411
Other components	190	10,997	347	2,653	33	693
Engineering	69	3,280	127	1,195	5	112
Agriculture	47	2,410	115	751	20	394
Education	23	1,895	51	238	2	44
Organized research units	21	1,721	28	232	4	103
Other	30	1,691	26	237	2	40

\* Excludes foreign institutions. † Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants.

NUMBER OF NIH TRAINEES AND TRAINING AND EDUCATION AWARDS BY FIELD OF INTEREST, FISCAL YEAR 1969  
(Amounts in millions of dollars)

Field of interest	Training and education grants *		Number of trainees <sup>†</sup>				Fellowships and traineeships *				Research career program awards *	
			Under research training grants		Under general support - research-related <sup>†</sup>		Number			Amount		
	Number	Amount	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Special		Number	Amount
Total	4,804	\$278.0	5,680 <sup>  </sup>	10,448 <sup>•</sup>	176	3,100	1,702	1,513	846	\$30.9	1,255	528.0
Medical sciences, clinical	1,816	141.0	3,598	1,500	79	1,792	248	3	185	4.9	398	9.6
Dentistry	257	27.2	87	18	19	287	19	2	16	0.4	9	0.2
Internal medicine	588	28.7	1,369	531	22	869	40	1	94	1.4	259	6.2
Neurology	111	5.9	400	17	—	41	80	—	—	0.9	9	0.3
Ophthalmology	58	3.2	301	10	10	28	44	—	—	0.5	9	0.2
Otorhinolaryngology	65	3.5	273	12	—	6	8	—	1	0.1	11	0.3
Pediatrics	58	3.0	263	61	17	124	11	—	27	0.4	53	1.3
Preventive medicine	219	41.0	7	11	—	13	1	—	—	**	—	—
Radiology	59	3.7	214	89	2	47	24	—	13	0.5	3	0.1
Surgery	119	6.5	416	69	4	187	15	—	15	0.4	15	0.4
Other	282	18.4	268	682	5	190	6	—	19	0.3	30	0.8
Medical sciences, nonclinical	2,081	74.1	877	1,956	43	490	312	174	192	5.5	239	5.3
Epidemiology	42	1.7	43	44	3	11	1	—	8	0.1	7	0.2
Nursing	1,126	27.5	—	3	—	—	—	1	37	0.2	1	**
Pathology	99	5.5	361	207	7	127	41	4	20	0.6	52	1.2
Pharmacology	84	5.3	158	602	8	111	37	33	25	0.8	49	1.1
Pharmacy	80	2.8	—	—	—	4	—	23	2	0.1	—	—
Physiology	128	7.2	237	788	17	200	180	111	73	2.9	122	2.7
Veterinary medicine	24	1.1	38	12	7	9	26	—	24	0.5	2	**
Other	498	22.9	40	300	1	28	27	2	3	0.2	6	0.1

See footnotes on following page

Continued



**NUMBER OF NIH TRAINEES AND TRAINING AND EDUCATION AWARDS BY FIELD OF INTEREST, FISCAL YEAR 1969 (Cont.)**  
(Amounts in millions of dollars)

Field of interest	Training and education grants *		Number of trainees†				Fellowships and traineeships *				Research career program awards *	
			Under research training grants		Under general support – research-related‡		Number			Amount		
	Number	Amount	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Special		Number	Amount
Biological sciences	476	\$32.2	933	4,761	41	648	865	816	258	\$13.9	548	\$11.5
Anatomy	56	3.2	92	452	5	149	46	35	9	0.7	39	0.8
Biochemistry	81	7.0	240	1,316	19	250	260	185	64	3.7	183	4.0
Biology	61	4.1	107	526	3	51	199	163	42	2.8	60	1.2
Biophysics	32	2.9	63	483	1	11	81	63	21	1.2	49	0.9
Genetics	50	4.1	133	540	2	16	61	66	20	1.0	64	1.3
Microbiology	162	9.0	229	1,160	7	118	153	152	64	2.8	132	2.8
Other	34	1.8	69	284	4	53	65	152	38	1.7	21	0.5
Engineering	75	3.5	47	382	—	16	11	33	58	1.1	6	0.1
Social sciences	42	3.4	35	337	—	6	5	19	73	0.6	3	0.1
Psychology	54	3.4	58	457	1	33	41	22	39	0.8	24	0.5
Mathematics	40	2.6	17	291	1	15	6	17	13	0.3	10	0.2
Environmental sciences	28	2.0	15	212	4	21	3	2	4	0.1	6	0.1
Physical sciences	22	1.1	29	126	4	33	163	427	16	3.5	16	0.3
Other sciences	170	15.0	71	426	3	46	48	—	8	0.4	5	0.1

\* Includes research training, educational improvement, allied health developmental, scholarship & opportunity, and traineeship grants. † Training in FY 1969 but paid from FY 1968 funds. Data are preliminary. ‡ Includes trainees supported under environmental health center grants. § Represents number of awards, not number of persons. || Includes 3,873 full-time trainees. ◆ Includes 6,163 full-time trainees. \*\* Less than \$50,000.

## NUMBER OF PERSONS IN NIH RESEARCH TRAINING PROGRAMS BY INSTITUTE OR DIVISION, FISCAL YEAR 1969\*

Institute or Division	Grand total	Total			Trainees <sup>†</sup>				Fellowships and traineeships <sup>‡</sup>			Research career program awards <sup>§</sup>
					Under research training grants		Under general support – research-related <sup>‡</sup>					
		Postdoctoral	Predocctoral	Special	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Postdoctoral	Predocctoral	Special	Postdoctoral
Total	24,616	8,717	15,055	844	5,680	10,448	176	3,100	1,690	1,507	844	1,171
I/D												
NIAID	1,463	614	805	44	377	805	–	–	124	–	44	113
NIAMD	1,653	1,173	339	141	856	339	–	–	164	–	141	153
NCI	1,691	755	851	85	513	851	–	–	149	–	85	93
NICHD	1,480	534	864	82	342	864	–	–	91	–	82	101
NIDR	785	355	401	29	279	385	–	–	32	16	29	44
NIEHS	525	50	473	2	37	416	4	48	5	9	2	4
NIGMS	9,035	1,978	6,866	191	1,210	5,389	–	–	404	1,477	191	364
NHI	2,062	1,136	812	114	839	812	–	–	105	–	114	192
NIND8	2,076	1,659	417	–	1,185	417	–	–	368	–	–	106
FIC	175	175	–	–	–	–	–	–	175	–	–	–
8EMT												
DDH	24	9	8	7	8	3	–	–	–	5	7	1
DHMS	62	62	–	–	–	–	–	–	62	–	–	–
DN	203	–	63	140	–	63	–	–	–	–	140	–
DRR	3,261	204	3,052	5	22	–	172	3,052	10	–	5	–
NLM	121	13	104	4	12	104	–	–	1	–	4	–

\*Excludes persons under 8EMT training programs for developing additional health manpower as follows: 13,824 trainees (7,000 of whom are short-term), 15,700 persons receiving scholarships or opportunity grants only, 41,183 persons receiving student loans only, and 10,822 persons receiving both scholarships or opportunity grants and student loans. <sup>†</sup>Training in FY 1969 but paid from FY 1968 funds. Includes 10,280 full-time and 9,124 part-time trainees. Data are preliminary. <sup>‡</sup>Includes trainees supported under environmental health center grants. <sup>§</sup>Excludes individuals receiving only supply allowances, incidental fees, or supplemental awards.

NUMBER OF TRAINEES UNDER NIH RESEARCH TRAINING GRANTS AND GENERAL SUPPORT GRANTS,  
FISCAL YEAR 1969\*

By Number of Months and Percent of Time in Training and by Academic Level

Number of months and percent of time in training	Total	Postdoctoral	Predoctoral	Medical and dental	Other <sup>†</sup>
Total	19,404	5,856	8,790	4,239	519
Full-time trainees <sup>‡</sup>	10,280	3,909	6,255	86	30
Part-time trainees <sup>§</sup>	9,124	1,947	2,535	4,153	489
3 months or less	6,411	870	1,433	3,668	440
100% of time	6,091	818	1,390	3,450	433
75% of time	91	6	5	79	1
50% of time	72	7	4	59	2
25% of time	157	39	34	80	4
3.1-7.9 months	2,209	774	1,029	371	35
100% of time	1,948	741	999	185	23
75% of time	44	13	8	22	1
50% of time	53	8	9	32	4
25% of time	164	12	13	132	7
8 months or more	504	303	73	114	14
75% of time	56	32	12	12	0
50% of time	135	60	41	24	10
25% of time	313	211	20	78	4

\*Training in FY 1969 but paid from FY 1968 funds. Includes trainees under BEMT and NLM research training grants and under environmental health center grants. Data are preliminary. <sup>†</sup>Includes prebaccalaureate students and trainees with no degree stated. <sup>‡</sup>Defined as in training for 100 percent of the time for a period of at least 8 months. <sup>§</sup>No part-time trainees were in training for less than 25 percent of the time.

**BEMT FUNDS ALLOCATED FOR EDUCATIONAL ASSISTANCE, BY HEALTH PROFESSION AND PROGRAM, FISCAL YEAR 1969**  
(Amounts in thousands of dollars)

Health profession	Total amount	Construction		Educational improvement & allied health developmental grants*				Student loan program		Scholarship & opportunity grants		Traineeship grants	
				Formula		Special project							
		No of schools	Amount	No of schools	Amount	No. of schools	Amount	No. of schools	Amount	No. of schools	Amount	No of schools	Amount
Total	\$323,546	54	\$152,083	838	\$50,940	295	\$42,506	925	\$42,437 †	577	\$17,771	419	\$17,809
Medicine	153,558	10	93,117	100	21,123	60	19,784	98	14,241	99	5,293	—	—
Osteopathic medicine	3,426	—	—	6	1,126	4	1,119	5	893	5	288	—	—
Dentistry	51,254	3	24,186	51	9,213	26	8,723	50	6,778	52	2,354	—	—
Optometry	4,441	—	—	10	1,480	8	1,685	10	883	10	393	—	—
Pharmacy	5,287	1	537	—	—	—	—	51	2,019	73	2,731	—	—
Podiatric medicine	2,213	—	—	5	694	5	1,053	3	306	5	160	—	—
Veterinary medicine	6,817	3	5,508	—	—	—	—	14	1,309	—	—	—	—
Nursing (R.N.)	57,676	31	18,643	393	3,000	84	4,000	694	16,008	333	6,552	120 ‡	9,473 ‡
Allied health	15,533	5	3,008	258	9,750	16	1,225	—	—	—	—	49	1,550
Public health	23,341	1	7,084	15	4,554	92	4,917	—	—	—	—	250 ¶	6,786

\* Excludes dental auxiliary utilization program

† Excludes sales insufficiencies &amp; interest losses.

‡ Excludes short-term traineeships (\$995,000).

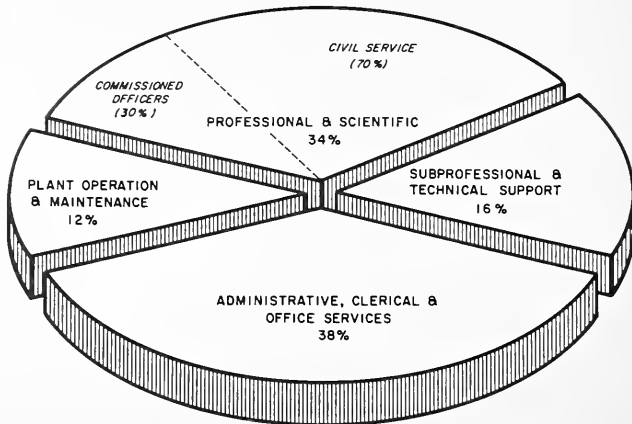
§ Excludes direct awards to individuals (\$263,000) and short-term traineeships (\$810,000)

## BEMT STUDENT LOAN AND SCHOLARSHIP PROGRAMS, FISCAL YEAR 1969

Health profession*	Student loan program		Scholarship program	
	Schools	Students	Schools	Students
Total	925	52,005 <sup>†</sup>	577	26,522 <sup>†</sup>
Medicine	98	12,808	99	6,018
Osteopathic medicine	5	1,050	5	564
Dentistry	50	6,375	52	3,135
Optometry	10	853	10	609
Pharmacy	51	2,541	73	3,608
Podiatric medicine	3	303	5	218
Veterinary medicine	14	1,075		
Nursing (R.N.) <sup>‡</sup>	694	27,000 <sup>§</sup>	333	12,370

\* Includes only schools for professions covered by provisions of the Health Professions Educational Assistance Act, the Nurse Training Act, and subsequent amendments.    † Includes 10,822 students who received both loans and scholarships.    ‡ Data refer either to nursing schools or to programs for nurse education.    § Estimated.

OCCUPATIONAL DISTRIBUTION OF NIH PERSONNEL  
11,948 SCIENTISTS AND SUPPORTIVE WORKERS, MARCH 1, 1970



# OCCUPATIONAL DISTRIBUTION OF NIH PERSONNEL – March 1, 1970\*

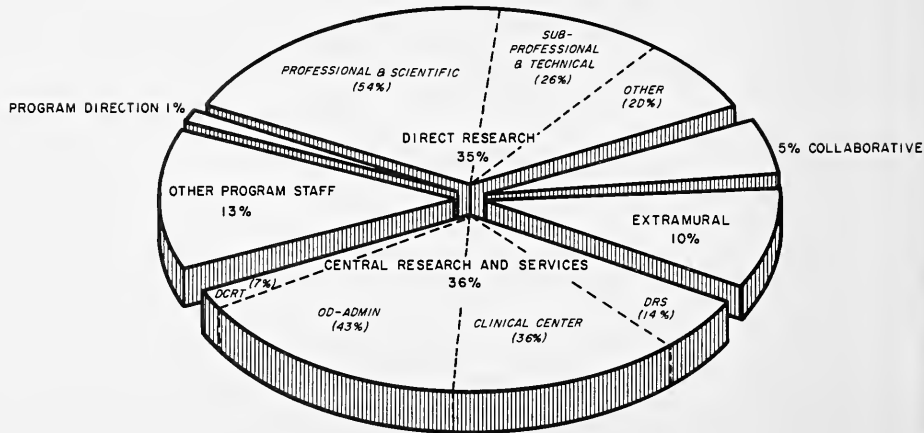
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Total		11,948
Professional and scientific		4,043
Administration	79	
Direct research	2,300	
Services	1,334	
Division of Research Grants	115	
Other extramural activities	215	
Sub-professional and technical support		1,959
Administrative, clerical, and office services		4,539
Plant operation and maintenance		1,407

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\* Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL  
11,948 SCIENTISTS AND SUPPORTIVE WORKERS, MARCH 1, 1970



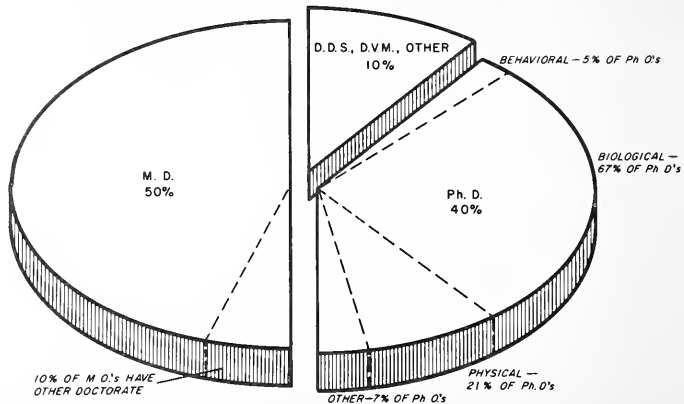


## FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL - March 1, 1970\*

Total staff 11,948						
Direct research			4,246	Central services		4,252
Professional and scientific			2,300	Division of Research Services		577
Doctorate			1,341	Professional and scientific		90
Nondoctorate			959	Other		487
Sub-professional and technical			1,100	Clinical Center		1,547
Other			846	Professional and scientific		558
				Other		989
Collaborative studies			582	OD-Administration		1,847
Professional and scientific			258	Professional and scientific		57
Doctorate			126	Other		1,790
Nondoctorate			132	Div. of Computer Res. & Tech.		281
Other			324	Professional and scientific		89
				Other		192
Extramural programs			1,199	Program direction (OD-NIH)		134
Professional and scientific			330	Professional and scientific		22
Doctorate			233	Other		112
Nondoctorate			97	Other program staff		1,535
Other			869	Professional and scientific		339
				Other		1,196

\*Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

NIH PROFESSIONAL STAFF  
2,068 PROFESSIONALS WITH DOCTORAL DEGREES, MARCH 1, 1970



**NIH PROFESSIONAL STAFF WITH DOCTORAL DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE \***  
**March 1, 1970**

Type of doctorate		Number	Distribution of Ph.D.'s by discipline			
Total		2,068				
M.D. (M.D.'s with other doctorate)	(108)	1,034	Biological	550	Behavioral	46
			Biochemistry	179	Psychology	38
			Microbiology	64	Social Sciences	8
			Physiology	59		
			Bacteriology	47	Physical	172
			Zoology	44	Chemistry	159
			Biology	40	Physics	13
Ph.D.		823	Pharmacology	31		
			Biophysics	17	Other	55
			Genetics	16	Statistics	14
			Entomology	13	Mathematics	8
			Parasitology	10	Miscellaneous	33
			Anatomy	8		
			Plant physiology	6		
			Plant pathology	4		
			Botany	2		
			Cytology	2		
			Embryology	2		
			Oncology	2		
			Other	4		
D.D.S.		114				
D.V.M.		50				
D.Sc.		21				
D.M.D.		12				
D.Ed.		7				
Other		7				

\* Includes full-time and regular part-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

## NATIONAL LIBRARY OF MEDICINE, DIRECT OPERATIONS, FY 1969

COLLECTION*	Book material	1,193,299
	Bound volumes	711,897
	Theses, pamphlets	481,402
	Nonbook material	79,056
CIRCULATIONS	Requests received	234,666
	Requests filled	199,461
	Readers	82,412
	Interlibrary loans	117,049
REFERENCE SERVICES	Inquiries	24,205
COMPUTER PROCESSING	MEDLARS citations	226,558
	Catalog entries	19,531
	Demand searches	6,484
INDEX MEDICUS	Journals indexed	2,260
	Articles indexed	210,602
NATIONAL MEDICAL AUDIOVISUAL CENTER	Productions	
	Television	50
	Motion picture	31
	Distribution	
	Titles in collection*	970
	Loans	79,251

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\* As of June 30, 1969.

## CHRONOLOGY OF IMPORTANT DATES IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887** Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891** Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902** Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912** Name of Public Health & Marine Hospital Service changed to Public Health Service.
- 1930** Hygienic Laboratory becomes National Institute of Health.
- 1937** Congress authorizes National Cancer Institute. First research grants.
- 1938** National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).

- 1944 Public Health Service Act, giving general research authority.
- 1945 Research grants extended, with central NIH responsibility.
- 1946 Division of Research Grants established to review and evaluate applications for NIH grants to non-Federal institutions and scientists.
- 1947 First training grants (NCI). DRG starts research fellowship program.
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute and National Institute of Dental Research. NIH becomes National *Institutes* of Health.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Act." National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.

- 1953** Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955** National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services established.
- 1956** Health Research Facilities Act, establishing program of matching grants for research construction in non-Federal institutions.
- 1958** Division of General Medical Sciences created.
- 1959** Office of Administrative Management formed, consolidating managerial activities.
- 1960** Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.

- 1962** Division of Research Facilities & Resources created. National Library of Medicine, constituent of PHS since 1956, moves to NIH reservation.
- 1963** Two Institutes (authorized in 1962) established—National Institute of General Medical Sciences (superseding DGMS) and National Institute of Child Health & Human Development.
- 1964** Division of Computer Research and Technology established.
- 1965** Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1966** Division of Environmental Health Sciences established.
- 1967** National Institute of Mental Health becomes separate bureau of PHS.
- 1968** John E. Fogarty International Center for Advanced Study in the Health Sciences established.



**1968** PHS reorganized under Assistant Secretary for Health & Scientific Affairs, DHEW. Bureau of Health Manpower, formed in PHS the previous year, and National Library of Medicine become constituents of NIH. Regional Medical Programs transferred to new Health Services & Mental Health Administration, PHS.

Lister Hill National Center for Biomedical Communications established at NLM. National Eye Institute authorized and established. NINDB becomes National Institute of Neurological Diseases & Stroke.

BHM becomes Bureau of Health Professions Education & Manpower Training and acquires the functions of DRFR. DEHS becomes National Institute of Environmental Health Sciences.

**1969** National Heart Institute renamed National Heart & Lung Institute.

## GLOSSARY OF ABBREVIATIONS

AEC .....	Atomic Energy Commission
BEMT.....	Bureau of Health Professions Education & Manpower Training
CC .....	Clinical Center
DAHM .....	Division of Allied Health Manpower
DBS .....	Division of Biologics Standards
DCRT.....	Division of Computer Research & Technology
DDH.....	Division of Dental Health
DEHS .....	Division of Environmental Health Sciences
DERF.....	Division of Educational & Research Facilities
DGMS .....	Division of General Medical Sciences
DHEW .....	Department of Health, Education, & Welfare
DHMES .....	Division of Health Manpower Educational Services

DN.....	Division of Nursing
DPM.....	Division of Physician Manpower
DRFR .....	Division of Research Facilities & Resources
DRG .....	Division of Research Grants
DRMP .....	Division of Regional Medical Programs
DRR .....	Division of Research Resources
DRS.....	Division of Research Services
EHS.....	Environmental Health Service
FDA .....	Food & Drug Administration
FIC .....	John E. Fogarty International Center for Advanced Study in the Health Sciences
GR & S .....	General Research & Services
GRS.....	General Research Support
HSMHA .....	Health Services & Mental Health Administration

ICMRT.....	International Center for Medical Research & Training
I/D .....	Institutes & Research Divisions
NASA.....	National Aeronautics & Space Administration
NCI .....	National Cancer Institute
NEI.....	National Eye Institute
NHI.....	National Heart Institute
NHLI.....	National Heart & Lung Institute
NIAID.....	National Institute of Allergy & Infectious Diseases
NIAMD.....	National Institute of Arthritis & Metabolic Diseases
NICHD.....	National Institute of Child Health & Human Development
NIDR .....	National Institute of Dental Research
NIEHS .....	National Institute of Environmental Health Sciences
NIGMS.....	National Institute of General Medical Sciences
NIH.....	National Institutes of Health

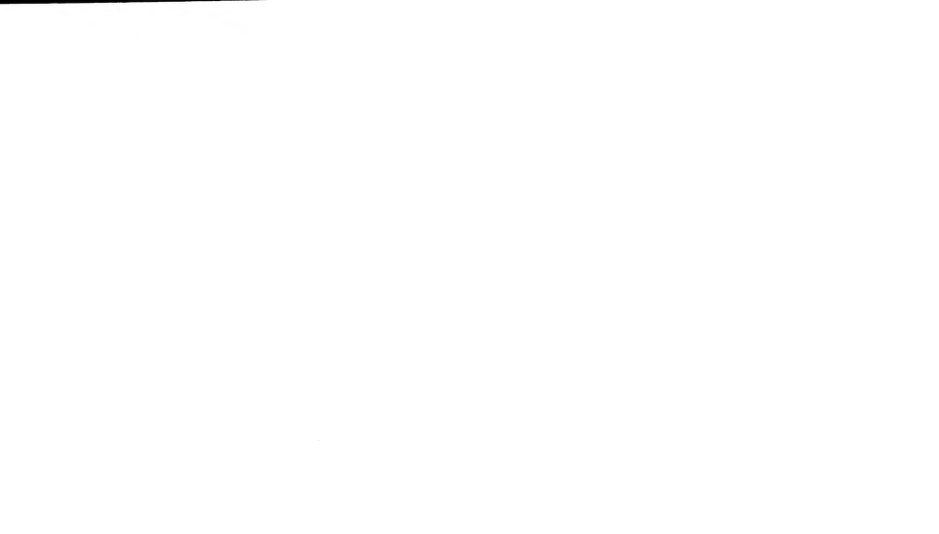
<b>NIMH</b> .....	National Institute of Mental Health
<b>NINDB</b> .....	National Institute of Neurological Diseases & Blindness
<b>NINDS</b> .....	National Institute of Neurological Diseases & Stroke
<b>NLM</b> .....	National Library of Medicine
<b>NSF</b> .....	National Science Foundation
<b>OD</b> .....	Office of the Director, NIH
<b>OD-ADMIN, ODA</b> .....	Offices of the Associate Director for Administration
<b>OIR</b> .....	Office of International Research
<b>OLA</b> .....	Office of Legislative Analysis
<b>ORA</b> .....	Office of Resources Analysis
<b>R &amp; D</b> .....	Research & Development
<b>SA</b> .....	Statistics & Analysis Branch
<b>VA</b> .....	Veterans Administration.















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